

Physiological Reviews

INDEX

VOLUMES 16-31 (1936-1951)

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The American Physiological Society
Washington, D. C

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BY WAVERLY PRESS, INC., BALTIMORE, MARYLAND

Guide to Use of Index

AN INDEX always represents a compromise between the indexer's desire to arrange information in neat parcels and the reader's urgent wish to find what he wants quickly under the term which comes first to his mind. In this index, we have attempted to consider the reader's desires first without sacrificing reasonable economy and bulk.

It is hoped that users will read this introduction carefully since it explains the way in which the index has been arranged, and an understanding of this arrangement will add greatly to the ease of usage.

PART I | PRINCIPLES

The author and subject index have been combined in one alphabet. The subject index resembles that of *Chemical Abstracts*. The phrases modifying the subject headings have been made as short as possible—in each case only the major aspect of the paper in relation to the specific subject heading is given. For example, a paper entitled "Yawning and Associated Phenomena" would be indexed under YAWNING with the phrase, associated phenomena, but with no mention in this place that heart rate was one phenomenon studied, as well as vasoconstriction in toe and finger. Entries would also be made under HEART RATE, VASOCONSTRICTION as well as under TOE and FINGER.

In most cases the specific not the general subject heading has been chosen for the index. When a general subject heading has been used, the material listed under it is of so general a nature as to preclude the use of a specific heading. The user wishing all material on a given broad subject, such as antihistaminics, should look in the list of subject headings in PART II for the names of antihistaminic substances and then look in the index under each of the subject headings given.

Wherever practical the page number used refers to the exact page in the article on which the information is to be found, or when a given piece of information is mentioned more than once, the *first* page on which it is mentioned. Where it was not practical to do this, the reference is to the first page of the paper.

Many of the subject headings are followed by a definitive word or phrase such as PROTEIN (DIETARY), PROTEIN (AS TISSUE CONSTITUENT).

For every paper the following items studied or described by the investigators were indexed:

- | | |
|---------------------------------------|---|
| 1) Organ or anatomical system | 4) Special tests, measurements, and apparatus |
| 2) Physiological states and functions | 5) Chemical substances or compounds |
| 3) Pathological condition | 6) Species of animals |

1) **Organ or Anatomical System** Wherever possible, the anatomical entries appear under the name of the organ or system, not under the adjective referring to that organ or system—e.g. *stomach* rather than *gastric*, *liver*, not *hepatic*. This rule has been modified, however, to take care of usage, we normally speak and write of *cardiac output*, not *heart output*. In cases such as the latter, if the bulk of material was small enough, the papers have been indexed in both places, i.e. under CARDIAC OUTPUT and under HEART, whenever the bulk of material made such double entry impractical, cross references are given.

Large groups of entries under an organ have been broken into small groups for ease of searching. Where a paper seemed to fit equally well into two of the small groups, an entry has been made in each group. This does not mean, however, that

all entries under HEART METABOLISM deal only with metabolism or, conversely, that none of the other papers under HEART—have anything to do with metabolism. The user should bear in mind that these groupings are relative and are primarily to aid searching. For a definitive search of *all* material on *metabolism of the heart*, all of the entries under HEART—must be scanned.

2) **Physiological States and Functions** We have followed common usage in choosing subject headings in this category regardless of the merits of less popular synonyms—e.g. *anoxia* not *hypoxia*. The less commonly used terms have been included with a *see* reference to the more popular terms. In cases where the bulk of material was too large to duplicate under both the anatomical and the physiological heading, the anatomical heading has been given preference.

3) **Pathological Condition** The same policy as in (2) above has been used with names of diseases and pathological conditions.

4) **Special Tests, Measurements and Apparatus**. New apparatus, tests and methods of determination have been indexed under the thing measured, and/or under the name of the apparatus or test.

5) **Chemical Substances or Compounds** The adequate indexing of pharmacologically active compounds is one of the most difficult problems in an index such as this one. A compound may have a chemical name, one or more trade names, a name approved by the AMA Council on Pharmacy, a common name and a pharmaceutical house number such as F933 (the Torneau number for 2-Piperidylmethyl), 11,4-Benzodioxan). An author may use one or more of these names in a paper, a user of the index may know only one of them. We have attempted to list the references to a drug under the most commonly used term, judging in part from the use of such terms in this journal. In addition we have provided a cross-reference pattern from the other names. Users are referred to the index to Vol. I, Part II, of *Excerpta Medica* for a more detailed list of synonyms of currently used drugs.

In regard to the chemical names we have used the names preferred by *Chemical Abstracts*, but have arranged them in direct rather than in inverted order. *Chemical Abstracts* uses PYRIDINE, 2-[(DIETHYLAMINOETHYL)-2-THIENYLAMINO] as an entry, in this index that compound would appear as 2-[(2-DIETHYLAMINOETHYL)-2-THIENYLAMINO], PYRIDINE and would be alphabetized under DI. Substituted compounds of the same parent chemical structure with similar pharmacological properties have been grouped under the name of the parent compound to save duplication of entries, e.g. all androstane diols such as 3 α ,17 β , *acetate*-3 *Androstane diol* are entered under ANDROSTANE DIOLS. If an author has used a chemical name other than the preferred one, that name has also been included in the index with the necessary cross reference.

As with the anatomical headings, many large groups of entries have been broken into smaller groups for convenience in searching, e.g. PROTEIN (DIETARY), PROTEIN (AS TISSUE CONSTITUENT), PROTEIN METABOLISM. The entries in these small groups are not mutually exclusive, and if a complete search for protein metabolism is needed all of the groups must be scanned.

6) **Species of Animal** Where data pertaining to a given animal are given in a paper, the paper is indexed under the name of the animal, e.g. rabbit. (Where age is an important factor the article has been included under the subject heading AGE).

In the case of experimental work on human beings all papers have been listed under MAN. All contributions on women have also been listed under WOMAN.

PART II LIST OF SUBJECT HEADINGS

The problem of *see also* references is a major one in the preparation of any subject index. *Quarterly Cumulative Index Medicus*, *Chemical Abstracts* and *Biological Abstracts* use many *see also* references, until recently, *Current List* solved the problem by not using any. For a complete pattern of *see also* references under a heading such

as VITAMIN B-COMPLEX, the reader should be referred to each member of the complex used as a heading, e g, THIAMIN, RIBOFLAVIN, each disease name under which the effects of either a lack of or the presence of a member of the vitamin B-complex is indexed, e g HYPERTHYROIDISM, BERR-BERI, each organ or tissue affected, e g NERVE, each physiological state or reaction, e g CHRONAXIE, and so on. Moreover, each subject heading referred to should also lead to all other subject headings in the original list and back to the vitamin B-complex. The magnitude of such a pattern is such that it can seldom be adhered to consistently throughout an entire index. Such a pattern would also require an enormous amount of space.

Indexers have long questioned how thoroughly *see also* references are used. At best they probably serve only as a reminder to the user of related subject headings under which he might find items of interest. Theoretically the problem would be solved by gathering together all entries under all pertinent specific and general headings. If this procedure were used, it should be followed consistently or the user would be misled and would miss many pertinent entries. There are a number of reasons against its use. The first, of course, is that the large bulk of material which would result would not only make the index exceedingly bulky and expensive, but would also increase the number of entries under each subject heading and reduce the ease with which the index could be scanned. In the second place, it is doubtful if any indexer could manage to list *all* items under *all* related headings so that *all* users could obtain *all* the information needed under *one* subject heading.

In this index, we have attempted to solve the problem of giving the user the information he needs about related subject headings by including lists of subject headings in the introduction. These subject headings have been divided primarily into five of the categories used for indexing, i e ORGAN OR ANATOMICAL SYSTEM, PHYSIOLOGICAL STATES AND FUNCTIONS, PATHOLOGICAL CONDITIONS, CHEMICAL SUBSTANCE AND COMPOUNDS, AND SPECIES OF ANIMAL STUDIED. Each group has been broken into smaller groups, the members of each sub-group having a single axis of categorization in common. The axis used, however, shifts from sub-group to sub-group, e g all body fluids are grouped together on the physical basis of being fluid, all nerves are grouped together on the anatomical basis of being nerves, but all members of the digestive tract are grouped together on the basis of function. The headings given to the various sub-groups should be labeled "subject headings referable to" the digestive tract, to the body fluids, etc., as some terms not strictly following the axis for categorization have been included, e g SWEAT has been placed in the list with fluids. No attempt has been made to arrive at groups which are completely logical—usability not logic has been the guiding principle. Subject headings which did not group conveniently on any one axis used have been allowed to stand alone near a list of related subject headings.

Not all the subject headings have been used. The lists have been kept to a minimum to permit ease of scanning. Many have been left out, especially in the list of chemical subject headings. Where several subject headings begin with the same word or syllable, only the common part of the headings has been used, e g Digit—for DIGITALIS, DIGITOXIN etc. This will provide the user with a clue to the part of the alphabet in which he should look for material on the subject.

It is hoped that the user will make extensive use of these lists when searching for anything except a very specific subject. For example, if he wishes all material on antihistaminics he can find under the major category of CHEMICAL SUBSTANCES the list of antihistaminics indexed, namely, ANTISINE, BENADRYL, DRAMAMINE and PYRIBENZAMINE. He then can look in the index for those in which he is interested. He can also find under PATHOLOGICAL CONDITIONS those pathological conditions in which antihistaminics might have been used, e g ALLERGY, ANAPHYLACTIC SHOCK, TRYPSIN SHOCK etc.

SUBJECT HEADINGS REFERABLE TO ANATOMICAL TERMS

SYSTEMS ¹	PARTS OF BODY		
Autonomic nervous	Body fat	Derma	Gums
Cardiovascular	Breast	Skin	Enamel
Central nervous	Cutaneous appendages	Subcutis	Dentin
Lymphatic	Eyelids		Teeth
Nervous	Finger	Cock's comb	Pulp
Neuromuscular	Foot	Feathers	Periodontal structures
Parasympathetic nervous	Head	Hair	
Reticulo-endothelial	Pelvis	Hair follicles	Lips
Skeletal	Surface area	Lanugo	Mouth
Sympathetic nervous	Toe	Vellus	
Sympathoadrenal			

FLUIDS		BLOOD, FORMED ELEMENTS	RESPIRATORY SYSTEM
Bile	Lymph	Blood cells	Bronchi—
Blood	Pancreatic	Erythrocytes	Diaphragm
Body—	Prostatic	Granulocytes	Lungs
Cerebrospinal	Saliva	Leukemic cells	Nasal mucosa
Colonic	Semen	Leukocytes	Respiratory tract
Extracellular	Serum	Lymphocytes	Trachea
Fluid	Sweat	Macrophages	
Gastric	Synovial	Monocytes	
Interstitial	Urine	Neutrophils	
Intestinal secretion	Venous	Platelets	
Intracellular		Reticulocytes	

TISSUES AND CELLS			SUPPORTING STRUCTURES
Argentaffine	Collagen	Adipose	Bone
Cells	Cytoplasm	Brown adipose	Cartilage
Fibroblast	Fibers	Endothelium	Joints
Genes	Intercellular cement	Epithelial	Synovial membrane
Histiocytes	Membrane	Hematopoietic	Tendon
Kupffer	Mitochondria	Membranous structures	
Melanophores	Nucleus	Periurethral	
Paneth	Protoplasm	Preputial	
Reticulum		Odontogenic epithelium	
Schwann			

GLANDS	ENDOCRINE GLANDS	URINARY TRACT	EYE
Brunner's	Anterior pituitary	Anal sphincter	Eye
Coagulating	Adrenal	Bladder	Iris
Cowper's	Neurohypophysis	Kidney	Lens
Coxal	Parathyroid	Malpighian tubes	Nictitating membrane
Harderian	Pineal body	Ureter	Pupil
Mammary	Pituitary		Retina
Salivary	Posterior pituitary	MUSCLES	
Sebaceous	Thymus	Extra-ocular	EAR
Sweat	Thyroid	Gastrocnemius	Ear
		Laryngeal	Cochlea
		Muscle	
		Orbital	

¹ Look under names of system, gland, artery or vein, i.e. cardiovascular, Brunner's aorta, ductus venosus

CARDIOVASCULAR SYSTEM		ALIMENTARY TRACT	
Blood vessels	Arteries ¹	Appendix	Pylor—
Capillaries	Arter—	Cecum	Rect—
Foramen ovale	Ductus arteriosus	Colon	Spleen
Heart	Hepatic	Epiglottis	Stomach
Luminal vessels	Iliac	Esophagus	
Pacemakers	Pulmonary	Gastrointestinal tract	
	Renal	Gall bladder	
VEINS	Umbilical	Gizzard	
Ductus venosus		Intestine	
Umbilical vein		Liver	
Vena cava		Pancreas	
Veins			

NERVES		REPRODUCTIVE SYSTEM	
Articular	Peripheral	Gonads	Corpus luteum
Aortic depressor	Sciatic		Fallopian tubes
Auditory	Splanchnic	Epididymis	Ova
Chorda tympani	Vagus	Male	Uterus
Neuromuscular		Os priapi	Vagina
Optic	Myenteric plexus	Penis	Vulva
		Prostate	
		Seminal vesicles	Umbilical cord
		Sperma	Placenta
		Testes	

NERVOUS SYSTEM		CENTRAL NERVOUS SYSTEM	
Electric organ	Neurons	Brain	Motor cortex
Ganglia	Synapse	Brain stem	Optic chiasma
Gray matter	White matter	Caudate nucleus	Pons
Hemato-encephalic barrier		Cerebellum	Spinal cord
Motoneurons	Aortic body	Cerebral hemispheres, cortex	Striate cortex
Nerve Fibers	Carotid body	Diencephalon	Thalamus
Nerve Nets	Carotid sinus	Dura mater	Visual cortex
Nerves	Chemoreceptors	Forebrain	Cardio-regulatory center
		Frontal lobe	Optic tract
		Geniculate body, lateral	Pupillary center
		Hypothalamus	Respiratory center
		Lenticular nucleus	Vasomotor center
		Medulla oblongata	Hypothalamico-hypophyseal tract

SUBJECT HEADINGS REFERABLE TO PHYSIOLOGICAL STATES OR CONDITIONS²

REPRODUCTION		CNS AND NEUROMUSCULAR	
Anestrus	Reproduction	Activity	Cushing's syndrome
Estrus cycle	Sex	Activity-rest cycle	Nerve conduction
Fertilization	Spermatogenesis	Action curve	Neuromuscular—
Implantation	Parthenogenesis	Adaptation	Pressure, Intracranial
Labor (parturition)	Parturition	Behavior	Sleep
Lactation	Pregnancy	Brain metabolism	Transmission
Masturbation	Puberty	Cerebral blood flow	Vestibular function
Menstruation	Puerperium	Chemoreception	Yawning
Ovulation		Chronaxia	

² See also under organs.

SPECIAL SENSES	CARDIOVASCULAR	REFLEXES	ALIMENTARY
Auditory stimuli	Blood flow	Coordination	Absorption
Cutaneous sense	Blood pressure	Crossed extensor	Appetite
Dark adaptation	Blood volume	Extensor thrust	Defecation
Hearing	Capillary permeability	Flexor	Digestion
Olfactory	Cardiac output	Myotatic	Gastric motility
Sensory discrimination	Circulation	Reflexes	Salivation
Taste (insects)	Erythropoiesis	Scratch	Thirst
Temperature	Hematopoiesis	Vascular	Peristalsis
Touch	Hemolysis		
Vision	Pulse rate		
Warmth	Vasoconstriction		
<hr/>			
METABOLISM	RENAL	POSTURE, MOTION	RESPIRATORY
Basal metabolic rate	Diuresis	Exercise	Minute volume
Dehydration	Glomerular——	Fatigue	Respiration
Detoxication	Renal clearance	Locomotion	Vital capacity
Gluco——	Urination	Posture	
Glyco——			Immunity
Ketolysis	Sweating		Phagocytosis
			Sedimentation rate
<hr/>			
GENERAL			
Acclimatization	Hibernation	Autolysis	Calcification
Age	Homeostasis	Chemotaxis	Differentiation
Body temperature	Osmo——	Oxidation	Mitosis
Diurnal rhythms		Phosphorylation	Mutation
Growth	Adsorption	Proteolysis	Pigmentation
Heat regulation	Alarm reaction		
			Fasting
			Nutritional status
<hr/>			

SUBJECT HEADINGS REFERABLE TO PATHOLOGICAL STATES OR CONDITIONS

BLOOD, BLOOD CELLS		CARDIOVASCULAR	
Anemia	Hodgkins disease	Aeroembolism	Leucocytosis
Avian leukemia	Leucocytosis	Atherosclerosis	Orthostatic
Blood dyscrasias	Leukemia	Circulatory failure	Periarthritis
Edema	Leukopoiesis	Hyperemia	Thromb——
Embolism	Poly cythemia	Hypertension	Tachyphaxias
Fibrillation	Pseudo-leukocytoses		
Hemo——			
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BLOOD CONSTITUENTS	DIETARY, METABOLIC		SKIN
Anoxemia	Acidosis	Lipo——	Eczema
Hypercholesteremia	Alkalosis	Obesity	Erythema
Hyperglycemia	Cytosiderosis	Phenylpyruvic	Inflammation
Hypoglycemia	Diabetes	Oligophrenia	Itching
	Inanition	Toxemia	Hyperalgesia
	Ketosis	Xanthom——	Pruritus
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GUIDE TO USE OF INDEX

DEFICIENCY DISEASE¹

Achromotrichia	Malnutrition
Alkali disease	Mineral deficiency
Anorexia	Pellagra
Black Tongue	Perosis
Celiac disease	Rosaces keratitis
Cheilosis	Rickets
Deficiency disease	Sprue
Malignancy factor	

RESPIRATORY

Anoxia
Asphyxia
Bronchoconstriction
Coughing
Hyperpnea

POISONING

Alcohol
Chloroform
Fluorosis
Lead
Salvarsan
Sulfonal
Snake bite

LIVER

Hemolytic jaundice
Hepatic disease
Hepatitis
Jaundice
Liver, fatty

URINE, EXCRETION

Anuria
Chromoproteinurias
Coproporphrinuria
Fructosuria
Glycosuria
Histidinuria
Lactosuria
Melituria
Tyrosinuria

OPERATIVE PROCEDURES

Adrenalectomy
Chloroform—
Fistula
Hypophysectomy
Nephrectomy
Pancreatectomy
Sternal puncture
Thyroidectomy
Cyclopropane—

CENTRAL NERVOUS SYSTEM

Blind staggers	Migraine
Concussion	Motion sickness
Convulsions	Niemann Pick's disease
Decerebrate	Paralysis agitans
Decompression	Peripheral neuropathy
Electroshock	Psychosis
Epilepsy	Spasticity
Ergotism	Stuttering
Gargylism	Tay Sachs disease
Hyperphagia	
Mental—	

CAUSED BY INVADERS

Arthritis	Lamb dysentery
Dermatitis	Malaria
Gingivitis	Mastitis
Glomerular nephritis	Nephritis
Glossitis	Osteosclerosis
Infectious mono—	Pneumonia
nucleosis	Tuberculosis

ALLERGIC

Allergy
Anaphylaxis
Trypan shock
Erythroblastosis

REPRODUCTIVE

Anovulation
Gynecomastia
Hermaphroditism
Homosexuality
Pseudopregnancy
Sterility
Turner's syndrome

ENDOCRINE

Goiter
Graves' disease
Hyperthyroidism
Myxedema

Addison's disease
Hyperinsulinism
Hyperparathyroidism

Gangrene
Necrosis
Pain

Blast injury
Crush syndrome
Death
Decompression sickness
Drowning

Mountain sickness
Shock
Stress
Trauma
Wounds

Collagen disease
Dental canes
Periodontal disease
Silico

Metastasis
Neoplasms

Constipation
Vomiting

¹ See also under name of substance, e.g. thiamin deficiency

SUBJECT HEADINGS REFERABLE TO CHEMICAL SUBSTANCES

ELEMENTS AND COMPOUNDS

Cations and Elements

Ammonia	Fluorine	Molybdenum	Silver
Antimony	Gold—	Nickle	Sodium
Argon	Helium	Nitrogen	Strontium
Arsenic	Hydrogen	Oxygen	Sulfur
Beryllium	Iodine—	Palladium	Tellurium
Bismuth	Iron	Phosphorus	Thorium
Cadmium	Krypton	Potassium	Tungsten
Calcium	Lead	Radium	Vanadium
Carbon	Magnesium	Radon	Zinc
Copper	Manganese	Selenium	Zirconium
Cobalt	Mercury	Silica	

Anions

Acetate	Chlorides	Iodides	Sulfate
Bicarbonate	Chromates	Nitrites	Sulphydryl group
Bromides	Citrate	Onium salts	Thiocyanates
Carbonate	Cyanide	Periodate	Thiols
Carbon dioxide	Fluoride	Phosphate	

FOOD AND TISSUE CONSTITUENTS

Carbohydrates

Arabinose	Heparin
Carbohydrate	Hexose phosphates
Fructose	Mannose
Galactose	Saccharose
Glucose	Sugars
Glycose	Xylose

Lipids

Aminoethanol cephalin	Inositolphosphatides
Caproic acid	Lecithins
Cardiolipin	Linoleic acid
Cerebrosides	Linolenic acid
Cholesterol	Lipids
Choline	Lipins
Chondroitin sulfate	Lipoids
Fat	Phosphatides
Fatty acids	Phospholipids
Gangliosides	Plasmalogens
Glycerol	Sphingomyelins
Inositol	Sphingosine
	Triacetin

Proteins

Albumoid	Apoferitin	Globin	Peptides
Albumin	Avidin	Globulin	Protein
Actomyosin	Carnosine	Hemoglobin	Thymine
Adenylic acid	Cytosine	Mucins	Visual Purple
Adenosine	Ferritin	Myelin	
Adenine	Fibrinogen	Nucleoproteins	

Amino Acids

Alanine	Lysine
Amino acids	Methionine
Arginine	Non protein nitrogen
Asparagine	Nor leucine
Aspartic acid	Nor valine
Cysteine	Ornithine
Dopa	Phenylalanine
Ethionine	Proline
Glutamate	Ribonucleic acid

Metabolites

Acetoacetate	Lactate
Acetoin	Malate
Acetone	Malonate
Acetopyruvate	Oxalacetate
Acetyl	Oxalate
Creatine	Oxalosuccinate
Creatinine	Pyruvate
Glycerophosphate	Phosphoglycerate
Glyceraldehyde	Succinate

GUIDE TO USE OF INDEX

Glutamine	Serine	Hydroxyacetoacetate	Trigonelline
Glycine	Threonine	Isocitric acid	Urea
Glycinin	Tryptophan	Keto acids	Xanthopterin
Histidine	Tyrosine	α -Ketoglutarate	Xanthine
Isoleucine	Valine		
Leucine			

Vitamins

Energy rich phosphates	Growth factors	Folic acid	Ascorbic acid
Glutathione	Niacin	Pteroylheptaglutamic acid	Biotin
Phosphocreatine	Nicotinamides	Pteroyltri glutamic acid	Carotene
Adenosine triphosphate	Pantothenic acid		Cod liver oil
Phosphagen	Riboflavin		
	Thiamin	Pyridoxal	Calciferol
Inosine	Tocopherols	Pyridoxine	Dihydrotachysterol
Nucleotides			Irradiated ergosterol
Uric acid			
Uracil			Vitamin——

DRUGS

CNS Depressants

Avertin	Allylisopropyl barbituric acid	Ipral	Anticonvulsants
Anesthetic gases	Amytal	Luminal	Dilantin
Chloral hydrate	Barbituric acid	Novasurol	Mesantoin
Cyclopropane	Barbital	Ortal	Mebaral
Ether	Dial	Pentobarbital	Paraldehyde
Nitrous oxide	Evip——	Phenobarbital	Phenylthienylhydantoin
Paraldehyde		Seconal	Trimethadione

Salicylates

Local Anesthetics

Procaine	Antihistaminics
Cocaine	Antergan
	Antihistaminics
	Antistine
Anthelmintic Agents	Benadryl
Arcoline	Dramamine
	Pyribenzamine

Carbarsone

Anticoagulants
Dicumarol
Coagulants
Irritants

CNS Stimulants

Amphetamine	Picrotoxin
Caffeine	Theobromine
Coramine	Theocin
Metrazol	Theophylline
Nicotine	Strychnine

Alkaloids

Abrin	Lupanine
Alkaloids	Muscarine
Germerine	Protoverine
Guandine	Pseudojervine
Jervine	Rubijervine
Lobeline	Veratramine

Salyrgan	Insecticides	Morphine	Digit——
Lysergic acid	Pyrethrum	Curare	Ergot Derivatives
Yohimbine	Atabrine	Quarternaryonium compounds	Ergot
Parasympathomimetic drugs		Apomorphine	Tyramine

Sulfa Drugs

Proguanil
Sulfanilamides
Sulfonamides

Sympathomimetic Drugs

Ephedrine
Methodrine
Prostigmine
Sympathomimetic amines

Atropine-like

Atropine
Belladonna alkaloids
Homatropine
Hyoscyamine
Hyoscine

ENZYMES

<i>Co-enzymes</i>	<i>Oxidation Reduction</i>	<i>Ester Hydrolyzing</i>	<i>Carbohydrate Hydrolyzing</i>
Respiratory enzymes	Amine oxidase	ATP ase	Amylase
Coenzymes	Amino acid oxidase	Cerebrosidase	Invertase
Dehydrogenase	Dopa oxidase	Cholinesterases	Lactase
Cytochrome	Lactic dehydrogenase	Esterase	Maltase
Diphosphopyridine nucleotide	Peroxidases	Lipase	
Triphosphopyridine nucleotide	Phenol oxidase	Lecithinase	<i>Non peptide C-N hydro- lyzing</i>
Zwischenferment	Polyphenol oxidase	Lecitholipases	Arginase
	Succinoxidase	Phosphatases	Urease
	Trypsinase	Phosphorylases	
	Uricase	Transphosphorylase	
	Xanthine oxidase		

Protein Hydrolyzing

			<i>Carboxylases</i>
Aminopolypeptidase	Chymotrypsin	Leucine aminopeptidase	Carboxylases
Carboxypeptidase	Enterokinase	Pepsin	Coccarboxylase
Carboxypolypeptidase	Erepsin	Papaïn	Oxalacetate B-carboxylase
Catheptic enzymes	Glycyl 1 leucine peptidase	Peptidases	Oxalosuccinate carboxylase
Cathepsin		Trypsin	

Miscellaneous

Antrenin	Enolase	Hyaluronidase	Receptor destroying enzymes
Apodehydrase	Enzymes	Hypertensinase	Renin
Aporymase	Fibrinogenase	Lysins	Succino-dehydrase
Carbonic anhydrase	Hemolysins	Lysozyme	Thiaminase
Catalase	Hexokinase	Phosphoglucomutase	Vesiculase
Dehydrase	Holozymase	Prothrombin	

Enzyme Inhibitors and Antimetabolites

		<i>Anticholinesterases</i>	
3 Acetyl-pyridine	Fluoroacetic acid	Anticholinesterases	Physostigmine
Alloxan	Inhibitors (metabolic)	DFP	8-Quinolyldiethyl thiophosphate
Avidin	Iodoacetate	Hexaethyltetraphosphate	Tetraethylpyrophosphate
Azide	Mustard gas		
Bal	Phlorhizin		
Carbon monoxide	Thiourea		
Colchicine			

HORMONES

Pituitary

Antidiuretic hormone	Diabetogenic
Antihormones	Follicle stimulating
Hormones	Gonadotropic
Adrenocorticotropic	Growth
Anterior pituitary	Lactogenic

Adrenal Gland

Adrenocortical	Adrenalone
Biocorticoids	Epinephrine
Corticosterone	Nor-epinephrine
Oxyteroids (11 and 17)	Sympathin

Gastrointestinal

Cholecystokinin	Gastrin
Duocinin	Pancreozymin
Enteroantheleon	Secretin
Enterocinin	Urogastrone
Enterogastrone	Villikinin

Androgens

Luteinizing	Androstadien
Oxytocic	Dehydroisoandrosterone
Pitocin	Testosterone

Pitressin
Pituitary
Pituitrin

Estrogens etc

Estrin	Chorionic
Estradiol	Gonadotropin
Hexestrol	Emmenin
	Placental extracts
	Stilbestrols
Progest—	Steroids

Other

Duodotyrosine	Insulin
Parathyroid	Lipocalc
Thyroxin	
	Acetylcholine
	Acetyl beta methyl choline

MISCELLANEOUS

Diets

Agglutinins
Amboceptors
Antibodies
Antigens
Complement
Fibrinolysin
Opsonins
Rh blood factor
Thromboplastin
Thrombin

Cabbage
Carbohydrate
Diet
Ketogenic

Betaine
Choline
Lipocac
Lipotropic factors

Bile acids
Bile pigments
Bilirubin
Taurocholate

Angiotonin
Hypertensionogen
Pepsitensin

Toxins, Venoms, etc

Botulinus
Cobra
Diphtheria
Dysentery
Methylguanidine
Mussel poison
Scorpion
Snake
Staphylococcus
Tetanus
Toxins
Venoms

Foods

Beef
Bread
Brussel sprouts
Butter fat
Carrots
Cereals
Cod liver oil
Corn
Egg
Flour
Food
Milk—
Mineral oil
Oils
Onion

Pigments, Dyes

Adrenochrome
Alizarin
Aniline dyes
Bismark brown
Brilliant green
Butter yellow
Chromodoris zebra pig-
ment
Congo red
Dyes
Eosin
Evans blue

Hallachrome
Janus green
Melanin
Methylene blue
Mvochrome
Nile blue
Phenol red
Pigments
Safranin
Toluidine blue
Trypan blue

SUBJECT HEADINGS REFERABLE TO SPECIES OF ANIMALS

MICROORGANISMS

Aerobacter
Bacteria
Bacteriophage
Clostridium—
Escherichia coli
Lactobacill—
Microorganisms

Pneumococcus
Propionibacterium
pentosaceum
Proteus vulgaris
Pyrogenic bacteria
Serratia marcesans
Spirochaetes

Streptococci
Streptococcus durans
Streptomyces
Tetrhymena gelele
Tubercle bacillus
Virus

Characeae
Halicytus
Molds
Neurospora
Spirogyra
Yeast

INVERTEBRATES

Ameba
Hemoflagellates
Intestinal flagellates
Malarial parasites
Paramecia
Sporozoa
Protozoa
Trypanosoma
Vorticella

Coelenterata
Jellyfish
Pysalia filaments

Ctenophora

Helminths

Cerbratulus
Echinococcus
Flatworms
Nemertea
Parasitic worms
Plathelminths
Taenia

Aphrodite
Annelida
Arenicola
Earthworm
Leech
Lumbucus
Urechis

Ancylostoma
Nemathelminthes
Nippostrongylus
Trichinella

Ponfero—

ENZYMES

Co-enzymes

Respiratory enzymes
Coenzymes
Dehydrogenase
Cytochrome
Diphosphopyridine
nucleotide
Triphosphopyridine
nucleotide
Zwischenferment

Oxidation Reduction

Amine oxidase
Amino acid oxidase
Dopa oxidase
Lactic dehydrogenase
Peroxidases
Phenol oxidase
Polyphenol oxidase
Succinoxidase
Trypsinase
Uricase
Xanthine oxidase

Ester Hydrolyzing

ATP-ase
Cerebrosidase
Cholinesterases
Esterase
Lipase
Lecithinase
Lecitholipases
Phosphatases
Phosphorylases
Transphosphorylase

Carbohydrate Hydrolyzing

Amylase
Invertase
Lactase
Maltase

*Non peptide C-N hydro-
lyzing*
Arginase
Urease

Protein Hydrolyzing

Aminopolypeptidase
Carboxypeptidase
Carboxypolypeptidase
Catheptic enzymes
Cathepsin

Chymotrypsin
Enterokinase
Erepsin
Glycyl leucine peptidase

Leucine aminopeptidase
Pepsin
Papain
Peptidases
Trysin

Carboxylases

Carboxylases
Cocarboxylase
Oxalacetate B-carboxylase
Oxalosuccinate carboxyl-
ase

Miscellaneous

Anturenin
Apodehydrodrase
Apozymase
Carbonic anhydrase
Catalase
Dehydrodrase

Enolase
Enzymes
Fibrinogenase
Hemolysins
Hexokinase
Holozymase

Hyaluronidase
Hypertensinase
Lysins
Lysozyme
Phosphoglucomutase
Prothrombin

Receptor destroying en-
zymes
Renin
Succino-dehydrodrase
Thiaminase
Vesiculase

Enzyme Inhibitors and Antimetabolites

3-Acetyl pyridine
Alloxan
Avidin
Azide
Bal
Carbon monoxide
Colchicine
Fluoroacetic acid
Inhibitors (metabolic)
Iodoacetate
Mustard gas
Phlorhizin
Thiourea

Anticholinesterases

Anticholinesterases
DFP
Hexaethyltetraphosphate
Physostigmine
8-Quinolyldiethyl thio-
phosphate
Tetraethylpyrophosphate

HORMONES

Pituitary

Antidiuretic hormone
Antihormones
Hormones

Diabetogenic
Follicle stimulating
Gonadotropic

Luteinizing
Oxytocic
Pitocin
Pitressin
Pituitary
Pituitrin

Androgens

Androstadien
Dehydroisoandrosterone
Testosterone

Adrenocorticotrophic
Anterior pituitary

Growth
Lactogenic

Adrenal Gland

Adrenocortical
Biocorticoids
Corticosterone
Oxyteroids (11 and 17)

Adrenalone
Epinephrine
Nor-epinephrine
Sympathin

Estrogens etc

Estrin
Estradiol
Hexestrol
Progesterone

Chorionic
Gonadotropin
Emmenin
Placental extracts
Stilbestrols
Steroids

Gastrointestinal

Cholecystokinin
Duocinin
Enteroanthelone
Enterocrinin
Enterogastrone
Gastrin
Pancreozymin
Secretin
Urogastrone
Villikinin

Other

Diiodotyrosine
Parathyroid
Thyroxin

Insulin
Lipocaine
Acetylcholine
Acetyl beta methyl
choline

MISCELLANEOUS

<i>Diets</i>			
Agglutinins	Cabbage	Betaine	Bile acids
Amboceptors	Carbohydrate	Choline	Bile pigments
Antibodies	Diet	Lipocair	Bilirubin
Antigens	Ketogenic	Lipotropic factors	Taurocholate
Complement			
Fibrinolysin			Angiotonin
Opsonins			Hypertensionogen
Rh blood factor			Pepsitensin
Thromboplastin			
Thrombin			

<i>Toxins, Venoms, etc</i>	<i>Foods</i>	<i>Pigments, Dyes</i>	
Botulinus	Beef	Adrenochrome	Hallachrome
Cobra	Bread	Alizarin	Janus green
Diphtheria	Brussel sprouts	Aniline dyes	Melanin
Dysentery	Butter fat	Bismark brown	Methylene blue
Methylguanidine	Carrots	Brilliant green	Myochrome
Mussel poison	Cereals	Butter yellow	Nile blue
Scorpion	Cod liver oil	Chromodorus zebra pigment	Phenol red
Snake	Corn	Congo red	Pigments
Staphylococcus	Egg	Dyes	Safranin
Tetanus	Flour	Eosin	Toluidine blue
Toxins	Food	Evans blue	Trypan blue
Venoms	Milk—		
	Mineral oil		
	Oils		
	Onion		

SUBJECT HEADINGS REFERABLE TO SPECIES OF ANIMALS

MICROORGANISMS

Aerobacter	Pneumococcus	Streptococci	Characeae
Bacteria	Propionibacterium	Streptococcus durans	
Bacteriophage	pentosaceum	Streptomyces	Halicystis
Clostridium—	Proteus vulgaris	Tetrahymena gelele	Molds
Escherichia coli	Pyrogenic bacteria	Tubercle bacillus	Neurospora
Lactobacill—	Serratia marcesans	Virus	Spirogyra
Microorganisms	Spirochaetes		Yeast

INVERTEBRATES

Ameba	Coelenterata	Cerbratulus	Aphrodite
Hemoflagellates	Jellyfish	Echinococcus	Annelida
Intestinal flagellates	Pvsaia filaments	Flatworms	Arenicola
Malarial parasites		Nemertea	Earthworm
Paramecia	Ctenophora	Parasitic worms	Leech
Sporozoa		Plathelminths	Lumbricus
Protozoa	Helminths	Taenia	Urechis
Trypanosoma			
Vorticella		Ancylostoma	
		Nemathelminthes	
Porifero—		Nippostrongylus	
		Trichinella	

ENZYMES

<i>Co-enzymes</i>	<i>Oxidation Reduction</i>	<i>Ester Hydrolyzing</i>	<i>Carbohydrate Hydrolyzing</i>
Respiratory enzymes	Amine oxidase	ATP-ase	Amylase
Coenzymes	Amino acid oxidase	Cerebrosidase	Invertase
Dehydrogenase	Dopa oxidase	Cholinesterases	Lactase
Cytochrome	Lactic dehydrogenase	Esterase	Maltase
Diphosphopyridine nucleotide	Peroxidases	Lipase	
Triphosphopyridine nucleotide	Phenol oxidase	Lecithinase	<i>Non-peptide C-N hydrolyzing</i>
Zwischenferment	Polyphenol oxidase	Lecitholipases	Arginase
	Succinoxidase	Phosphatases	Urease
	Trypsinase	Phosphorylases	
	Uricase	Transphosphorylase	
	Xanthine oxidase		
<i>Protein Hydrolyzing</i>			<i>Carboxylases</i>
Aminopolypeptidase	Chymotrypsin	Leucine aminopeptidase	Carboxylases
Carboxypeptidase	Enterokinase	Pepsin	Coccarboxylase
Carboxypolypeptidase	Erepsin	Papain	Oxalacetate B-carboxylase
Catheptic enzymes	Glycyl 1 leucine peptidase	Peptidases	Oxalosuccinate carboxylase
Cathepsin		Trypsin	
<i>Miscellaneous</i>			
Antirenin	Enolase	Hyaluronidase	Receptor destroying enzymes
Apodehydrase	Enzymes	Hypertensinase	Renin
Apozymase	Fibrinogenase	Lysins	Succino-dehydrase
Carbonic anhydrase	Hemolysins	Lysozyme	Thiaminase
Catalase	Hexokinase	Phosphoglucomutase	Vesiculase
Dehydrase	Holozymase	Prothrombin	
<i>Enzyme Inhibitors and Antimetabolites</i>		<i>Anticholinesterases</i>	
3 Acetyl-pyridine	Fluoroacetic acid	Anticholinesterases	Physostigmine
Alloxan	Inhibitors (metabolic)	DFP	8-Quinolyldiethyl thiophosphate
Avidin	Iodoacetate	Hexaethyltetraphosphate	Tetraethylpyrophosphate
Azide	Mustard gas		
Bal	Phlorhizin		
Carbon monoxide	Thiourea		
Colchicine			
<i>HORMONES</i>			
<i>Pituitary</i>			<i>Androgens</i>
Antidiuretic hormone	Diabetogenic	Luteinizing	Androstadien
Antihormones	Follicle stimulating	Oxytocic	Dehydroisoandrosterone
Hormones	Gonadtropic	Pitocin	Testosterone
		Pitressin	
Adrenocorticotropic	Growth	Pituitary	
Anterior pituitary	Lactogenic	Pituitrin	
<i>Adrenal Gland</i>		<i>Estrogens etc</i>	
Adrenocortical	Adrenalone	Estrin	Chorionic
Bio corticoids	Epinephrine	Estradiol	Gonadotropin
Corticosterone	Nor-epinephrine	Hexestrol	Emmenin
Oxysteroids (11 and 17)	Sympathin	Progest—	Placental extracts
			Stilbestrols
			Steroids
<i>Gastrointestinal</i>		<i>Other</i>	
Cholecystokinin	Gastrin	Duodotyrosine	Insulin
Duocinin	Pancreozymin	Parathyroid	Lipocac
Enteroanthelone	Secretin	Thyroxin	
Enterocnin	Urogastrone		Acetylcholine
Enterogastrone	Villikinin		Acetyl beta methyl choline

CUMULATIVE INDEX—VOLUMES 16-31

For *see also* references check subject heading lists in Introduction

ABRIN

body temperature and action, 1946, 26 267

ABSORPTION

intestinal, adrenal cortex, 1944, 24 102
factors interfering with, 1948, 28 107
vitamin D, 1940, 20 538

ACCLIMATIZATION

blood constituents, 1943, 23 173, 1943, 23 177
carbon monoxide anoxemia, 1940, 20 333
circulation, 1947, 27 219
environmental heat, 1947, 27 219
factors influencing, 1947, 27 220
rectal temperature, 1947, 27 219
sweating, 1947, 27 219
to high oxygen tension, 1945, 25 35

ACETALPHOSPHATIDES *see* PLASMALOGENS

ACETALS

industrial health hazards, 1942, 22 173

ACETANILIDE

industrial health hazards, 1942, 22 183

ACETATE

antagonistic structural analogs, 1947, 27 312
biologically active form, 1947, 27 605
fixation of carbon dioxide, 1946, 26 209
formation, 1947, 27 583
from fatty acids, 1947, 27 586
growth response of plant like flagellates to, 1941, 21 3
ketone formation from, 1945, 25 405
metabolic building stone for porphyrin, 1951, 31 408
metabolic sources and reactions, 1946, 26 144
metabolism, 1947, 27 574
multiple pathways of oxidation, 1950, 30 496
occurrence in animal tissues, 1947, 27 584
oxidation in brain, 1939, 19 165
oxidative metabolism, 1947, 27 605
permeability of collodion membranes, 1936, 16 56
source, in detoxication 1939, 19 342
synthesis of acetylcholine, 1945 25 619
tricarboxylic acid cycle 1946, 26 240
utilization for synthetic reactions, 1947, 27 594

ACETOACETATE

decarboxylation, 1951, 31 81
development of diabetes, 1949, 29 60
oxidation in brain, 1939, 19 165
proportion to beta hydroxybutyrate, 1945, 25 408
tricarboxylic acid cycle, 1946, 26 240

ACETOIN

synthesis, 1951, 31 61

ACETONE

denaturation of proteins, 1936, 16 673
permeability of collodion membranes, 1936, 16 57

ACETONE BODIES *see* KETONE BODIES

ACETOPYRUVATE

oxidation in brain, 1939, 19 166

ACETYL

formation from amino acids, 1947, 27 589
from pyruvate, 1947, 27 592
precursors, 1947, 27 577

ACETYL- α -METHYLCHOLINE

hydrolysis by cholinesterases, 1951, 31 314

ACETYL- β -METHYLCHOLINE

blood flow in liver, 1942, 22 66
hydrolysis by cholinesterases, 1951, 31 314
liver volume, 1942, 22 67

ACETYL- α, β -METHYLCHOLINE

hydrolysis by cholinesterases, 1951, 31 314

3-ACETYL-PYRIDINE

antagonism to nicotinic acid, and nicotine amide, 1947, 27 313

ACETYLAMINO ACIDS

metabolism, 1947, 27 580

ACETYLATION

in animal tissues, 1947, 27 574

ACETYLCHOLINE

antagonism of atropine, 1945, 25 610
antagonism to epinephrine and smooth muscle, 1944, 24 472
antidiuretic hormone of pituitary, 1945, 25 590
arthropod nervous system, 1946, 26 468
assay, 1943, 23 8
blood vessels of rabbit ear, 1950, 30 185
body temperature and action, 1946, 26 266
capillary permeability, 1947, 27 457
cardiac muscle, 1950, 30 178
C.N.S., 1945, 25 596
cerebral circulation, 1936, 16 551
curare action, 1947, 27 468
denervated muscle, 1939, 19 37
enzymatic hydrolysis, 1945, 25 625
epinephrine and, in C.N.S., 1945, 25 377
form in nervous tissue, 1945, 25 614
formation, choline, 1944, 24 149
function in heart auricles, 1950, 30 181
functional significance, 1937, 17 550
functions in intestine, 1950, 30 182
ganglionic transmitter, 1937, 17 501
hydrolysis by cholinesterases, 1951, 31 314
in trypanosomes, 1950, 30 181
injection, respiration, 1945, 25 599
sleep, 1945, 25 599
intraventricular injection, results, 1945, 25 600
local hormone, 1950, 30 177
mechanism of inhibition in viscera, 1950, 30 184
metabolism, drugs, 1945, 25 630
motor and inhibitor effects 1950, 30 181
in viscera, 1950, 30 183
of C.N.S., 1945, 25 612

Ariolimax	Arthropoda	Bed bugs	Himantarium
Cephalopoda		Cockroach	Julus
Clam	Crustacea	Coleoptera	Myriapoda
Helix	Homarus	Diptera	Scolopendra
Lima	Xiphosura	Drosophila	
Loligo		Honeybee	Ascidia
Mollusca	Arachnida	Hymenoptera	Ciona
Mytilus	Scorpions		
Octopus	Spiders	Insects	
Pleurobranchia		Isoptera	
Sepia		Leanders	
Squid		Lepidoptera	
		Mala	
Echinoderms		Orthoptera	
Sea Urchin Egg		Siphonaptera	

VERTEBRATES

Elasmobranchs	Hagfish	Ameiurus	Amphibia
Electric fish	Lamprey	Catfish	Frog
Electrophorus	Raja	Fish	Proteidae
Gymnotus	Torpedo	Ganoid Fishes	Salmander
		Lung fish	Toad
		Salmon	
			Lizard
			Reptiles
			Turtle
Capon	Finches	Beaver	Muskrat
Chick	Fowls	Ferret	Pocket gopher
Chicken	Owls	Guinea Pig	Rabbit
Duck	Pigeon	Hamster	Rat
Goose	Sparrow	Hare	Shrew
	Turkey	Mole	Squirrel
		Mouse	
Baboon	Mammals, diving	Cattle	Bat
Chimpanzee	Manatee, Florida	Dog	Elephant
Man	Mink	Goat	Hippopotamus
Monkey	Porpoise	Horse	Opossum
Primates	Rorqual, common	Mule	Platypus
	Sea elephant	Ox	Water buffalo
	Sea lion		
	Seal	Ruminants	
	Whales	Sheep	
		Swine	

MISCELLANEOUS

Female	Aged	Negroes	Buds
Male	Children	Race	Leaves
Woman	Embryo		Roots
	Fetus		
	Infant (human)		Plants
	Maternal organism		Seeds
	New born		Vegetables

- homeostasis, 1950, 30 241
hyperplasia, 17-ketosteroids, 1950 30 351
hypophysectomy, 1940, 20 493
intestinal absorption, 1944, 24 102
17 ketosteroids, 1950, 30 350
lactation, 1944, 24 113
leukemia, 1946, 26 55
medulla and water metabolism 1949, 29 297
metabolic changes in stress, 1950, 30 284
morphine, histamine, 1944, 24 108
obesity, 1944, 24 37
physiological processes, 1944, 24 89
pictorial representation of response to stress, 1950, 30 279
pituitary function, 1940, 20 511
posterior pituitary, 1949, 29 302
potassium, 1940, 20 395
protein metabolism, 1944, 24 101
rate of secretion of adrenocortical hormone, 1950, 30 244
renal function, 1944, 24 97
resistance to stress, 1944, 24 107
response to stress, 1950, 30 276
size, pituitary, 1940, 20 495
toxins, anaphylaxis, and infections, 1944, 24 108
trauma, 1944, 24 109
tumors, 17-ketosteroids, 1950, 30 351
water diuresis, intoxication, and diabetes insipidus, 1944, 24 99
water metabolism, 1949, 29 281
 in adaptational syndrome, 1949, 29 299
 thyroid, 1949, 29 298
vitamin C in, toxemia, 1939, 19 450
- ADRENALECTOMY**
fat absorption, 1940, 20 568
gonads, 1945, 25 214
life span after, 1944, 24 89
ovarian stimulation, 1945, 25 221
plasma volume, 1944, 24 94
potassium metabolism, 1944, 24 94
potassium of cells, 1944, 24 96
renal function, 1944, 24 98
response to fluid administration 1949, 29 283
sexual condition and survival, 1945, 25 218
water balance, 1944, 24 512
water exchange, 1949, 29 285
- ADRENAL GLANDS**
androgenic action, 1945, 25 225
androgens, 1937, 17 201
ascorbic acid in, 1936, 16 444
decompression sickness, 1947, 27 384
fetal, role, 1945, 25 231
gonad like effects, 1945, 25 224
gonadal hormones in, 1945, 25 239
gonadectomy, 1945, 25 209
gonadotropic extracts of, 1945, 25 217
gonads, 1945, 25 203, 1945, 25 216
hypertrophy, 1945, 25 235
insufficiency, heart, arterioles and capillaries in, 1944, 24 111
Na, K, and Cl, 1951, 31 288
insulin of pancreas, 1944, 24 422
lactation, 1936, 16 510, 1944, 24 351
mammary gland development, 1944, 24 346
phlorhizin, 1945, 25 263
phospholipid formation, 1942, 22 306
pituitary, 1945, 25 236
reproductive cycle, 1945, 25 206
sex differences, 1945, 25 204
sex hormones, 1945, 25 211
silica of, 1938, 18 334
toxemia of pregnancy, 1948, 28 13
utilization of ketone bodies, 1945, 25 415
vitamin A distribution, 1944, 24 216
water balance, 1944, 24 512
wound healing, 1936, 16 386
- ADRENAL MEDULLA**
adrenal cortex and, in water metabolism, 1949, 29 297
autonomic innervation, 1943, 23 4
glutamic acid, 1950, 30 560
- ADRENALONE**
oxidation reduction potentials, 1939, 19 197
- ADRENO-GENITAL SYNDROME**
in children, 1945, 25 223
in men, 1945, 25 234
- ADRENOCROME**
as catalyst in intermediary metabolism, 1941, 21 300
- ADRENOCORTICAL HORMONES**
adaptation to stress, 1950, 30 296
antidiuretic hormone, 1949, 29 289
autonomy concept, 1950, 30 264
capillary permeability, 1947, 27 456
detoxication in stress, 1950, 30 294
diuretic action, 1949, 29 301
estimates of rate of secretion, 1950, 30 260
 of utilization and degradation, 1950, 30 262
excess production in stress, 1950, 30 299
extra-renal actions, 1949, 29 293
fat and glycogen deposition, 1948, 28 458
growth of leukemic cells, 1946, 26 66
in convulsions related to tissue hydration, 1949, 29 299
in vitro metabolism, 1950, 30 329
in vivo metabolism, 1950, 30 328
indices of rate of secretion, 1950, 30 244
mechanism of action on water balance, 1949, 29 286
 of increasing resistance to stress, 1950, 30 294
melanin formation, 1950, 30 114
multiteroid concept, 1950, 30 263
"N" and "S" hormone concept, 1950, 30 263
regulation of rate of secretion, 1950, 30 266
secondary sexual characteristics, 1945, 25 236
sexual behavior, 1947, 27 285
toxemia of pregnancy, 1948, 28 3
unitarian concept, 1950, 30 265
water and electrolyte metabolism, 1949, 29 288
water balance, 1944, 24 513
water diuresis, 1949, 29 284
water exchange in normal animals, 1949, 29 285
water excretion, 1949, 29 283
water retaining action, 1949, 29 302
- ADRENOCORTICOPHIN** *see* **ADRENOCORTICOTROPIC HORMONE**

ACETYLCHOLINE

- permeability of C.N.S. capillaries to, 1942, 22 134
- pressor action, 1945, 25 388
- prostatic secretion, 1945, 25 284
- relation to histamine and nor epinephrine, 1950, 30 190
- release, 1945, 25 624
- storage and liberation, 1937, 17 508
- synaptic and neuro-muscular transmission, 1937, 17 540
- synergism with epinephrine, 1945, 25 390
- synthesis, glutamic acid, 1950, 30 557
 - in cardiac tissue, 1950, 30 179
 - in CNS, 1939, 19 177
 - in tissues, 1945, 25 616
 - inhibition, 1945, 25 622
- transmission at nerve endings, 1937, 17 485
- see also* CHOLINE COMPOUNDS

ACETYLENE

- as anesthetic gas, 1938, 18 471

ACETYLMETHYLCARBINOL *see* ACETON**ACHESON, G. H.** *see* KRAYE, O**ACHROMACHIA** *see* ACHROMOTRICHIA**ACHROMOTRICHIA**

- definition, 1948, 28 368
- early experiments, 1948, 28 369
- endocrine factors, 1948, 28 376
- nutritional deficiency, 1948, 28 368
- vitamin B-complex, 1948, 28 370

ACID-BASE BALANCE

- hemoglobin, 1938, 18 509
- clinical significance of changes, 1940, 20 17
- law of mass action, 1938, 18 504
- in subacute mountain sickness, 1943, 23 171

ACIDOSIS

- formation of ketone bodies, 1945, 25 409
- glucose tolerance, 1938, 18 284
- lactic acid, severe exercise, 1950, 30 231
- organic phosphates of blood, 1941, 21 423

ACIDS

- bacteriophage, 1936, 16 136
- gastric absorption, 1948, 28 434

ACTH *see* ADRENOCORTICOTROPIC HORMONE**ACTION CURVE**

- in large plant cells, 1936, 16 221

ACTIVITY

- muscle, conductivity, 1936, 16 480
- muscle constituents, 1936, 16 475

ACTIVITY-REST CYCLE

- physiology, 1949, 29 3

ACTOMYOSIN

- metallic ions and, 1950, 30 421

ACYLOINS

- synthesis, 1951, 31 61

ADAPTATION

- diseases of, in experimental animals, 1950, 30 303

ADAPTATION SYNDROME

- adrenal cortex and water balance in, 1949, 29 299
- in response to stress, 1950, 30 298

ADDISON'S DISEASE

- 17-ketosteroids, 1950, 30 350
- melanin formation, 1950, 30 114

- plasma volume, 1944, 24 94

- response to fluid administration, 1949, 29 283

ADENINE

- antagonistic structural analogs, 1947, 27 312
- blood pressure, 1936, 16 298
- ultraviolet radiation, 1950, 30 447

ADENOCARCINOMA *see* NEOPLASMS**ADENOSINE**

- blood flow in ear, 1936, 16 300
 - in kidney, 1936, 16 301
 - in spleen 1936, 16 301
- blood pressure, 1936, 16 298
- coronary blood flow, 1936, 16 299
- distribution in animal body, 1936, 16 309
- heart, 1936, 16 296
- muscle contraction, 1936, 16 301
- pulmonary artery blood flow, 1936, 16 300

ADENOSINE TRIPHOSPHATE

- heart, 1936, 16 296
- in cardiac muscle, 1936, 16 624
- in muscle and plasma, 1936, 16 455
- mode of action, 1939, 19 376
- resynthesis, in muscle, 1941, 21 227
- pulmonary artery blood flow, 1936, 16 300

ADENYLIC ACID

- blood pressure, 1936, 16 298
- distribution in animal body, 1936, 16 308
- ultraviolet radiation, 1950, 30 447

ADIPOSE TISSUE

- blood supply, 1948, 28 452
- cells, origin, 1948, 28 451
- deposition of fat, 1948, 28 453
 - of glycogen, 1948, 28 455
- enzymatic activity, 1948, 28 460
- innervation, 1948, 28 452
- metabolism in vitro, 1948, 28 459
- obesity, 1948, 28 461
- physiology, 1948, 28 451
- respiratory quotient, 1948, 28 459

ADRENAL CORTEX

- anatomical alterations, 1950, 30 244
- anterior pituitary, posterior pituitary, in diabetes insipidus, 1949, 29 292
- carbohydrate metabolism, 1941, 21 167, 1944, 24 100
- combustion of acetone bodies, 1944, 24 105
- conversion of keto acids to carbohydrate, 1944, 24 104
- deamination of amino acids, 1944, 24 103
- differentiation between tumors and hyperplasia, 1950, 30 355
- electrolyte metabolism, 1944, 24 90, 1949, 29 281
- environmental temperature, pressure, 1944, 24 109
- essential hypertension, 1950, 30 304
- exhaustion of, 1950, 30 291
- function, pituitary and, 1940, 20 497
 - water diuresis tests, 1949, 29 300
- glucose oxidation, 1944, 24 104
- glycogenesis in liver, 1944, 24 103
- gonad relationship, 1945, 25 203
- histochemical studies, 1941, 21 255
- histological alterations, 1950, 30 244

ALLOVAN

- as intermediary metabolite, 1949, 29 68
- blood sugar, 1948, 28 309
- determination, 1948, 28 305
- diet and susceptibility, 1949, 29 58
- enzymatic reactions, 1948, 28 324
- factors influencing response, 1948, 28 308
- mechanism of action, 1948, 28 318, 1949, 29 61
- minimum lethal dose, 1948, 28 307
- monoethyl-, diabetogenic action, 1948 28 323
- see also DIABETES, ALLOVAN

ALLOXAZINS

- in cellular respiration, 1939, 19 216

ALLYLISOPROPYL-BARBITURIC ACID

- brain metabolism, 1939, 19 169

ALMQUIST, H. J. Vitamin K, 1941, 21 194

ALTITUDE, HIGH

- adaptation, 1943, 23 166
- adrenal gland, 1947, 27 384
- blood vessel, 1947, 27 378
- bone, 1947, 27 382
- bone marrow, 1947, 27 382
- central nervous system, 1947, 27 375
- decompression sickness, 1947, 27 364, 1947, 27 375
- exercise, drugs, 1947, 27 387
- exercise, 1936, 16 282
- fat tissue, 1947, 27 379
- joints, 1947, 27 382
- kidney, 1947, 27 385
- leukocyte count, 1943, 23 300
- liver, 1947, 27 385
- lung, 1947, 27 377
- muscle, 1947, 27 381
- oxygen administration, 1945, 25 43
- perosteum, 1947, 27 382
- reproduction, 1943, 23 180
- spleen, 1947, 27 386

ALTSCHULE, M. D. see VALLEE, B. L.

AMAUROTIC IDIOCY see TAL-SACHS DISEASE

AMBOCEPTOR

- complement, hemolysis, 1936, 16 41

AMEBA

- nutrition, 1941, 21 6

AMEIURUS

- velocity of nerve conduction, 1946, 26 34

AMELIN

- substitute for insulin, 1949, 29 82

AMINE OXIDASE

- inactivation of sympathomimetic amines, 1946, 26 178

AMINES

- acetylation, 1947, 27 576
- inhibition of brain metabolism, 1939, 19 174
- oxidation in brain, 1939, 19 167

p-AMINO-ACETOPHENONE

- antagonism to p-aminobenzoic acid, 1947, 27 312

AMINO ACIDS

- absorption, anoxia, 1941, 21 319
- absorption spectra, irradiation, 1950, 30 440
- alternate metabolic pathways, 1950, 30 500
- analogs, metabolic inhibition, 1945, 25 696
- antagonism to other amino acids, 1947, 27 312

antagonistic structural analogs, 1947, 27 312

biosynthesis by neurospora, 1945, 25 656

carbohydrate, 1951, 31 471

metabolism, 1946, 26 150

carcinogenesis, 1944, 24 194

crystalline, injection, nitrogen balance, 1944, 24 382

deamination, adrenal cortex, 1944, 24 103

essential and non-essential, 1938, 18 114

in protein synthesis, 1936, 16 10

essentiality of non-essential, 1951, 31 410

formation of acetyl from, 1947, 27 589

frequency of occurrence in protein, 1936, 16 4

in lens protein, 1937, 17 4

in muscle and plasma, 1936, 16 455

incorporation in vitro, 1950, 30 211

in vivo, 1950, 30 209

incorporation of acetate into, 1950, 30 498

independent uptake, 1950, 30 216

inversion of steric configuration, 1940, 20 240

irradiation, 1936, 16 671

labeled, in cell particulate fractions, 1950, 30 213

incorporation into tissue, 1950, 30 206

hypotonic action, 1944, 24 137

mechanism of incorporation, 1950, 30 214

melanin formation, 1950, 30 109

membrane permeability, 1936, 16 64

metabolic deamination and amination, 1940, 20 236

microbiological assay, 1949, 29 219

in urine, 1949, 29 254

with organisms other than lactic acid bacteria, 1949, 29 253

mutant strains deficient in synthesis, 1945, 25 656

nutritional significance, 1938, 18 109

of optical isomers, 1938, 18 130

nutritional studies with mixtures, 1938, 18 119

of ferritin, 1951, 31 490

oxidation and synthesis, 1939, 19 225

in brain, 1939, 19 167

permeability of skin, 1946, 26 528

plasma protein formation, 1940, 20 202

recovery data in microbiological assay, 1949, 29 252

replacement by dietary amino acids, 1940, 20 235

synthesis of acetylcholine, 1945, 25 622

synthesis of protein in vivo, 1936, 16 10

utilization in heart, 1936, 16 625

AMINO ACID OXIDASE

thyroxine, 1951, 31 216

AMINO ALCOHOLS see ALCOHOLS

p-AMINO BENZAMIDE

antagonism to p-aminobenzoic acid, 1947, 27 312

AMINO COMPOUNDS

detoxication, 1939, 19 336

AMINO XYLENE

as industrial health hazard 1942, 22 185

 β AMINO-BUTYRIC ACID

antagonism to β alanine, 1947, 27 312

17-AMINO-3 EPIHYDROXYAETIO-ALLO-CHOLANE see

ANDROSTANOLS

 Δ^5 17 AMINO-3-HYDROXY AETIOCHOLENE see ANDROS-

TENOLS

AMINO-NICOTINIC ACID

6-, antagonism to p-aminobenzoic acid, 1947, 27 312

See page iii for guide to use of index

ADRENOCORTICOTROPIC HORMONE

central neuro-humoral mechanism of regulation, 1950, 30 273

of secretion, 1950, 30 273

composition, 1946, 26 589

definition of, 1940, 20 494, 1946, 26 575

electrolyte metabolism, 1951, 31 288

excretion of 17 ketosteroids, 1950, 30 328

isolation, 1946, 26 585

methods of assay, 1946, 26 585

peripheral humoral mechanism of regulation, 1950, 30 268

regulation, 1950, 30 268

toxemia of pregnancy, 1948, 28 1

toxicity, 1950, 30 302

therapy of collagen diseases, 1950, 30 307

ADRENOCORTICOTROPIN *see* **ADRENOCORTICOTROPIC HORMONE****ADRENOTROPIC HORMONE** *see* **ADRENOCORTICOTROPIC HORMONE****ADRENOTROPIN** *see* **ADRENOCORTICOTROPIC HORMONE****ADRENOTROPIC HORMONES** *see* **ADRENOCORTICOTROPIC HORMONE****ADRENOTROPIN** *see* **ADRENOCORTICOTROPIC HORMONE****ADSORPTION**

membrane permeability, 1936, 16 61

AEROBACTER AEROGENES

pteryylglutamic acid in, 1948, 28 63

AEROEMBOLISM

drugs, 1947, 27 387

exercise, 1947, 27 387

AETIO-ALLOCHOLENEDIONE 3,17 *see* **ANDROSTANE-DIONES** **Δ^4 -AETIOCHOLENEDIOL-3 TRANS 17** *see* **ANDROSTENE-DIOLS** **Δ^5 -AETIOCHOLENEDIOL 3 TRANS-17-CIS** *see* **ANDROSTENEDIOLS** **Δ^4 -AETIOCHOLENEDIONE-3,17** *see* **Δ^4 ANDROSTENEDI-ONES****A/G RATIO**

of synovial fluid and serum, 1940, 20 284

AGE

chemical composition of aorta, 1943, 23 186

differential cell count of sternal marrow, 1944, 24 62

17-ketosteroids of urine, 1950, 30 341

insulin of pancreas, 1944, 24 414

organic phosphates of blood, 1941, 21 415

silica of tissues, 1938, 18 334

urea clearance, 1941, 21 532

variation in leukocyte count due to, 1943, 23 292

vitamin A fluorescence in liver, 1944, 24 214

wound healing, 1936, 16 377

AGED

ascorbic acid in brain, 1939, 19 178

AGEING

bacteriophage 1936, 16 135

cell multiplication, 1951, 31 276

cytoplasmic changes, 1951, 31 278

endocrine balance, 1951, 31 281

physiological aspects, 1951, 31 274

AGGLUTININS

functional significance, 1940, 20 89

AIR CURRENTS

insensible loss of water, 1942, 22 7

ALANINE

α , antagonistic structural analogs, 1947, 27 312

β , antagonistic structural analogs, 1947, 27 312

microbiological assay, 1949, 29 247

ALARM REACTION

histochemical changes in adrenals, 1946, 26 12

ALBINISM

melanin formation, 1950, 30 121

ALBUMIN

food protein and production, 1940, 20 201

of synovial fluid and serum, 1940, 20 284

sensitization to heat by ultraviolet radiation, 1950, 30 444

site of formation, 1940, 20 195

ALBUMOID

amino acids of, 1937, 17 4

ALCOCK, R S Synthesis of proteins in vivo, 1936, 16 1**ALCOHOL POISONING**

porphyryns, 1940, 20 457

ALCOHOLS

aliphatic, industrial health hazards, 1942, 22 171

amino, as industrial health hazards, 1942, 22 177

bivalent, industrial health hazards, 1942, 22 172

detoxication, 1939, 19 334

gastric absorption, 1948, 28 436

trivalent, industrial health hazards, 1942, 22 173

ALDEHYDES

detoxication, 1939, 19 335

industrial health hazards, 1942, 22 173, 1942, 22 182

ALIPHATIC AMINES

as industrial health hazards, 1942, 22 177

ALIPHATIC ESTERS

of nitric acid, as industrial health hazards, 1942, 22 177

ALIPHATIC HYDROCARBONS

as industrial health hazards, 1942, 22 170

ALIPHATIC NITRILES

as industrial health hazards, 1942, 22 178

ALIPHATIC SULFUR

derivatives, as industrial health hazards, 1942, 22 178

ALIZARIN

staining of bone, 1937, 17 131

ALKALI DISEASE

pathology, 1943, 23 313

ALKALOIDS

elimination, by arthropoda, 1938, 18 54

gastric absorption, 1948, 28 436

ALKALOSIS

formation of ketone bodies, 1945, 25 409

organic phosphates of blood, 1941, 21 426

ALLENE

as anesthetic gas, 1938, 18 470

ALLERGY

antihistaminic drugs, 1947, 27 561

immunity, in tuberculosis, 1938, 18 392

plasma proteins, 1947, 27 630

rheumatic heart lesions, periarthritis nodosa and, 1950, 30 306

ANDROSTENEDIOLS

- benzoate, formulae and physiological activity, 1937, 17 182
- ethyl, formulae and physiological activity, 1937, 17 183, 1937, 17 186
- formulae and physiological activity, 1937, 17 183
- trans-, S/L ratio, (pro-estrogens), 1948, 28 26

ANDROSTENEDIONES

- formulae and physiological activity, 1937, 17 183

 Δ^4 -ANDROSTENOL-17 ONE-3 *see* TESTOSTERONE Δ^4 -ANDROSTENOL-3 TRANS-ONE 17 *see* ANDROSTERONES

ANDROSTENOLS

- formulae and physiological activity, 1937, 17 183

ANDROSTENS

- isolated from human urine, 1950, 30 325

ANDROSTERONES

- cis-, formulae and physiological activity, 1937, 17 184
- 11, isolated from human urine, 1950, 30 324
- 15 α -, isolated from human urine, 1950, 30 324
- isolated from human urine, 1950, 30 324
- preparation from urine, 1937, 17 166
- succinate, formulae and physiological activity, 1937 17 185
- trans-, formulae and physiological activity 1937, 17 184

ANEMIA

- copper, 1940, 20 49
- dietary iron, 1940, 20 45
- due to burns, 1945, 25 560
- in dogs, folic acid, 1948, 28 95
- infection, 1951, 31 372
- metallic elements, 1940, 20 42
- microcytic hypochromic, pyridoxine deficiency 1942, 22 269
- organic phosphates of blood, 1941, 21 432

ANEMIA, ANOXIC

- ability of brain to survive, 1950, 30 378

ANEMIA, APLASTIC

- lymphocytes as erythrocyte ancestors, 1942, 22 382
- plasma proteins, 1947, 27 632
- prophyrins, 1940, 20 449
- urinary coproporphyrin, 1947, 27 485

ANEMIA, MACROCYTIC

- nutritional, folic acid, 1948, 28 90
- of pregnancy, folic acid, 1948, 28 90
- pteroylglutamic acid, 1948, 28 53

ANEMIA, MEGALOBLASTIC

- differentiation of two groups, 1948, 28 93
- response to folic acid, 1948, 28 93
- in infancy, folic, 1948, 28 90

ANEMIA, PERNICIOUS

- Addisonian, folic acid, 1948, 28 82
- folic acid, 1948, 28 85
- pathological hemoglobin, 1951, 31 414
- prophyrins, 1940, 20 446
- thymine, 1948, 28 84
- urinary coproporphyrin, 1947, 27 485

ANEMIA, SICKLE CELL

- genetic basis, 1944, 24 454
- pathological hemoglobin of, 1951, 31 415

ANESTHESIA

- curare, 1947, 27 472
- in large plant cells, 1936, 16 229
- inhalation, cardiac response, 1941, 21 324
- insulin of pancreas, 1944, 24 415
- pharmacology, 1938, 18 447
- potentiation with barbiturate, 1939, 19 481
- production of shock, 1942, 22 78

ANESTHETIC GASES

- criterion for, 1938, 18 447

ANESTRUS

- survival of adrenalectomy, 1945, 25 219

ANGIOTONIN

- chemical properties, 1947, 27 137
- definition, 1947, 27 132
- experimental hypertension, 1940, 20 187
- smooth muscle, 1944, 24 474
- unit, 1947, 27 140

ANHYDRO-HYDROXYL-PROGESTERONE *see* PROGESTERONE

ANILINE DYES

- industrial health hazards, 1942, 22 183
- carcinogenesis due to, 1937, 17 93
- permeability of C.N.S. capillaries to, 1942, 22 126

ANIMALS

- ascorbic acid, cytoplasm, cell surfaces 1943, 23 79
- calcium and boundary structure of cells, 1943, 23 76
- chemical nature of cells, 1943, 23 83
- of cell membranes, 1943, 23 83
- loss of ascorbic acid in metabolism, 1943, 23 90

ANNELIDA

- acetylcholine of tissues, 1946, 26 371
- cephalic dominance, 1946, 26 358
- cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
- giant fiber discontinuity, 1947, 27 645
- nervous control of locomotion, 1946, 26 352
- nervous system, electrophysiology, 1947, 27 651
- velocity of nerve conduction, 1946, 26 341
- in ganglionic cords, 1946, 26 339

ANOREXIA

- nervosa, 17 ketosteroids, 1950, 30 360
- pituitary gland, 1940, 20 501

ANOVLUTION

- menstruation, 1937, 17 50

ANOXEMIA

- carbon monoxide, 1940, 20 313
- acclimatization, 1940, 20 333
- effects, 1940, 20 324
- reproduction, 1940, 20 332
- respiration, 1940, 20 330
- sex glands, 1940, 20 332
- carotid and aortic bodies, 1940, 20 119
- glucose metabolism of heart, 1936, 16 606
- symptoms, 1940, 20 323

ANOXIA

- acetylcholine metabolism, 1945, 25 632
- alimentary tract, 1941, 21 307
- central nervous system, 1939, 19 135
- cerebral blood flow, 1939, 19 135
- gastric impermeability, 1941, 21 317
- intestinal absorption, 1941, 21 319

- α AMINO-SULFONIC ACIDS**
 antagonism to amino acids, 1947, 27 312
- 2-AMINOTHIAZOLE**
 inhibition of thyroxin formation, 1950, 30 202
- p-AMINOBENZOIC ACID**
 achromotrichia, 1948, 28 374
 antagonistic structural analogs, 1947, 27 312
 as anti-sulfonamide factor, 1945, 25 688
 extraction procedure for microbiological assay, 1948, 28 272
 inhibition of thyroxin formation, 1950, 30 202
 melanin formation, 1950, 30 110
 metabolic inhibitors, 1945, 25 692
 microbiological assay, 1948, 28 257
 pteroylglutamic acid, in bacterial nutrition, 1948, 28 64
- AMINOBENZYL METHYL THIAZOLIUM CHLORIDE**
 antagonism to thiamin, 1947, 27 314
- AMINOETHANOL CEPHALIN**
 chemistry, 1946, 26 280
- p-AMINONAPHTHOL**
 inhibition of brain metabolism, 1939, 19 177
- AMINOPHENOLS**
 as industrial health hazards, 1942, 22 180
- AMINOPOLYPEPTIDASE**
 autolytic enzyme, 1938, 18 190
- β AMINOPYRIMIDINE**
 anti black tongue activity, 1940, 20 258
- AMMONIA**
 formation due to irradiation of protein, 1936, 16 681
 in brain, 1950, 30 550
 in ergot alkaloids, 1938, 18 306
 ketone body formation, 1945, 25 409
 permeability of collodion membranes to, 1936, 16 56
 production in heart, 1936, 16 625
 synthesis of acetylcholine, 1945, 25 622
- AMMONIUM CHLORIDE**
 urea clearance, 1941, 21 536
- AMPHETAMINE**
 mode of action, 1946, 26 176
 therapy for motion sickness, 1949, 29 358
- AMPHIBIA**
 calcium metabolism, 1943, 23 139
 development of joints, 1950, 30 127
 larval, melanophores, 1948, 28 392
 pigment pattern, 1948, 28 392
 melanophores, 1948, 28 387, 1948, 28 395
 neoplasms, 1949, 29 93
 phosphorus metabolism, 1943, 23 141
 pigment pattern, 1948, 28 395
- AMYL ALCOHOL**
 growth response of plant-like flagellates, 1941, 21 3
 i-, permeability of collodion membranes, 1936, 16 56
- AMYL NITRITE**
 cerebral blood flow, 1936, 16 554
- AMYLASE**
 duodenal secretions, 1941, 21 38
 in intestinal secretion, 1941, 21 50
 localization in cells, 1941, 21 247
 thyroxin, 1951 31 217
- AMYLENE HYDRATE**
 urinary coproporphyrins, 1947, 27 497
- p-AMYL PHENOL**
 tertiary S/L ratio, (pro-estrogens), 1948, 28 26
- AMYTAL**
 anesthetic dose in various species, 1939, 19 496
- ANAL SPHINCTER**
 morphine, 1937, 17 634
- ANAPHYLAXIS**
 adrenal cortex, 1944, 24 108
 antihistaminic drugs, 1947, 27 561
 heparin in, 1944, 24 302
 histamine, 1941, 21 568
 in infections, 1941, 21 71
 physiology, 1941, 21 563
- ANCYLOSTOMA**
 immunity to, 1940, 20 483
- ANDERSON, W. E. AND WILLIAMS, H. H.** The role of fat in the diet, 1937, 17 335
- ANDROGENS**
 calcium and phosphorus metabolism, 1943, 23 139
 corticoid effects, 1945, 25 223
 detection and assay, 1937, 17 156
 estrogen like action, 1937, 17 199
 formulae and physiological activity, 1937, 17 180
 mammalian skeleton, 1943, 23 145
 ossification centers, 1943, 23 145
 physiology 1937, 17 153
 possible origin from cholesterol, 1937, 17 191
 potency, test, 1951, 31 36
 prostate, 1937, 17 80
 quantitative extraction, 1937, 17 164
 sex antagonism studies, 1937, 17 206
 sex development in chick embryo, 1937, 17 238
 sexual behavior, 1947, 27 278
 skeletal system, 1943, 23 139
 threshold of prostate, 1945, 25 290
 various organs and, 1937, 17 200
- ANDROSTADIEN**
 Δ^3 , isolated from human urine, 1950, 30 324
- ANDROSTAN 3(α)-OL-17 ONE** *see* ANDROSTERONES
- ANDROSTAN 3(β)-OL-17 ONE** *see* ANDROSTERONES
- ANDROSTANE-3(α), 11(β) DIOL-17-ONE** *see* ANDROSTERONES
- ANDROSTANE-6, 17-DIONE** *see* ANDROSTANEDIONES
- ANDROSTANE-3(α)-OL-11, 17-DIONE** *see* ANDROSTERONES
- ANDROSTANEDIOLS**
 3,17-dimethyl, formulae and physiological activity, 1937, 17 185
 17-ethyl, formulae and physiological activity, 1937, 17 185
 formulae and physiological activity, 1937, 17 180
 17 methyl, formulae and physiological activity, 1937, 17 187
- ANDROSTANEDIONES**
 isolated from human urine, 1950, 30 324
- ANDROSTANOLS**
 formulae and physiological activity, 1937, 17 186, 1937, 17 188
- Δ^4 ANDROSTEN 3(β)-OL-17-ONE** *see* ANDROSTERONES
- Δ^4 ANDROSTENE-3,17-DIONE** *see* ANDROSTANEDIONES

- number and variety, 1941, 21 593
 physiology, 1941, 21 588
 significance, 1941, 21 617
 specificity, 1941, 21 601
 time of appearance and disappearance, 1941, 21 604
- ANTIMONY**
 industrial hazard, 1945, 25 190
 intoxication, BAL, 1949, 29 187
- ANTIPYRINE**
 permeability of collodion membranes, 1936, 16 56
- ANTIRENIN**
 definition, 1947, 27 147
- ANTISTINE**
 pharmacology, 1947, 27 545
- ANTITHROMBIN**
 normal, in blood, 1944, 24 297
- ANTITHROMBOPLASTIN**
 evidence for, 1944 24 304
- ANTITHYROID COMPOUNDS**
 chemical grouping, 1950, 30 541
 direct chemical action of thiocarbamides 1950, 30 200
 mode of action, 1950, 30 194
- ANURIA**
 in burns, 1945, 25 550
- AORTA**
 adaptation in shock, 1942, 22 112
 calcification and lipids in, 1943, 23 195
 chemical composition and age, 1943, 23 186
 lipid deposits, 1943, 23 193
 mechanism of lipid deposition, 1943, 23 199
 receptors, 1947, 27 12
 thoracic, silica of, 1938, 18 334
- AORTIC BODY**
 anatomy and embryology, 1940, 20 115
 anoxemia, 1940, 20 119
 carbon dioxide, 1940, 20 124
 chemoreceptor activity, 1940, 20 149
 circulation, 1940, 20 144
 cyanides, 1940, 20 124
 function, 1940, 20 115
 hydrogen ion concentration, 1940, 20 134
 pharmacology, 1940, 20 147
 physiological properties, 1940, 20 118
 reflexes from, respiration, 1944, 24 326
 response and stimulus, 1940, 20 118
 sulfides, 1940, 20 124
- AORTIC DEPRESSOR NERVES**
 section, experimental hypertension, 1940, 20 161
- APHRODITE**
 velocity of conduction in ganglionic cords, 1946, 26 339
- APODEHYDRASE**
 in cellular respiration 1939 19 218
- APOENZYME** *see* APOZYMASE
- APOFERRITIN**
 immunochemistry, 1951, 31 493
- APOMORPHINE**
 acetylcholine metabolism, 1945, 25 632
- APOZYMASE**
 definition, 1939 19 356
- APPENDIX**
 silica of, 1938, 18 334
- APPETITE**
 hypothalamic lesions, 1946, 26 549
- ARABINOSE**
 Q_{10} of minced guinea pig brain, 1939, 19 150
- ARABOFLAVIN**
 antagonism to riboflavin, 1947, 27 313
- ARACHNIDA**
 locomotion, 1946, 26 359
 neuromuscular system, 1946, 26 465
- ARECOLINE**
 parasympathetic nervous system, 1937, 17 386
 site of action, 1937, 17 392
- ARENICOLA**
 velocity of conduction in ganglionic cords, 1946, 26 339
- AREY, L. B.** Wound healing, 1936, 16 327
- ARGENTAFFINE CELLS**
 function, 1941, 21 57
- ARGINASE**
 metallic ions, 1950, 30 397, 1950, 30 410, 1950, 30 416
 thyroxin, 1951, 31 216
- ARGININE**
 activity of amidine group, 1940, 20 238
 antagonism to lysine, 1947, 27 313
 indispensable amino acid, 1938, 18 129
 demonstration of essentiality, 1938, 18 113
 microbiological assay, 1949, 29 247
 in tissues, 1949, 29 254
 synthesis in neurospora, 1945, 25 653
- ARGON**
 solubility in tissues, 1947, 27 369
- ARJOLIMAX**
 velocity of nerve conduction, 1946, 26 340
- ARROW, L. E.** Irradiation of proteins and amino acids, 1936, 16 671
- ARNOLD-SCHULZE LAW**
 validity, 1944, 24 227
- ARSENIC**
 carcinogenesis due to, 1937, 17 92
 detection in cells, 1941, 21 245
 industrial hazard, 1945, 25 190
 melanin formation, 1950, 30 120
 permeability of skin, 1946, 26 530
 reactions with BAL, 1949, 29 168
 reaction with cell constituents, 1949, 29 171
- ARSENIC POISONING**
 arsphenamine, liver and kidney lesions, 1939, 19 464
 BAL, 1949, 29 180
 biochemical lesion, 1949, 29 168
 symptoms, 1945, 25 190
- ARSENOBETAINE HYDROCHLORIDE** *see* BETAINE COMPOUNDS
- ARSENOCOLINE CHLORIDE** *see* CHOLINE COMPOUNDS
- ARTERIES**
 anastomoses with veins, 1938, 18 230
 local hormones in wall, 1950, 30 186
 small platelet count of blood from, 1951, 31 117
- ARTERIOLES**
 adrenal insufficiency, 1944, 24 111

ANOXIA

- intestinal secretion, 1941, 21 321
- psychological consequences, 1939, 19 137
- survival and revival of brain after, 1950, 30 376
- vitamin requirements, 1948, 28 124

ANOXIA, ANEMIC

- gastric motility, 1941, 21 311
- gastric secretion, 1941, 21 319

ANOXIA, ANOVIC

- gastric emptying time, 1941, 21 310
- gastric secretion, 1941, 21 320

ANOXIC, HISTOTOXIC

- alimentary tract motility, 1941, 21 312

ANOXIA, STAGNANT

- gastric motility, 1941, 21 311

ANTERGAN

- acute toxicity, 1947, 27 550
- minimum effective doses, 1947, 27 552
- pharmacology, 1947, 27 545

ANTERIOR PITUITARY GLAND

- adrenal cortex, posterior pituitary and, in diabetes insipidus, 1949, 29 292
 - autonomic nerves, 1948, 28 160
 - blood sugar, 1941, 21 163
 - carbohydrate metabolism, 1938, 18 1, 1938, 18 281
 - cells, 1937, 17 558
 - cellular changes and secretion, 1937, 17 556
 - cervical sympathetic nervous system, 1948, 28 158
 - control of testicular hormones, 1937, 17 203
 - diabetogenic action, 1938, 18 11, 1944, 24 428
 - exhaustion of, 1950, 30 292
 - fat, glycogen deposition, 1948, 28 457
 - gonadotropic secretion, 1937, 17 576
 - gonads, 1948, 28 154
 - histology, castration, 1937, 17 561
 - estrone, 1937, 17 573
 - hyperthyroidism, 1937, 17 571
 - pregnancy, 1937, 17 565
 - sex hormones, 1937, 17 572
 - thyroidectomy, 1937, 17 568
 - hypersensitivity to insulin, 1938, 18 2
 - insulin of pancreas, 1944, 24 424
 - lactation, 1936, 16 501, 1944, 24 348
 - mammary gland development, 1944, 24 342
 - nerve paths to, 1948, 28 157
 - anatomy, 1948, 28 157
 - neural control of, 1948, 28 154
 - neuro-vascular transmission of stimuli to, 1948, 28 168
 - pregnancy, 1938, 18 586
 - regulation of adrenal cortex, 1950, 30 266
 - tissue culture, 1937, 17 606
 - water balance, 1944, 24 509
- ANTERIOR PITUITARY HORMONES**
- activity, 1938, 18 8
 - exophthalmos, 1949, 29 274
 - potentiated by placental extracts, 1938, 18 434
 - preparation and chemistry, 1946, 26 574
 - sexual behavior, 1947, 27 285
- ANTHELMINTIC AGENTS**
- metabolism of parasites, 1949, 29 211

ANTHELONE

- definition, 1950, 30 70
- Mann Williamson operation, 1950, 30 71
- mechanism of action, 1950, 30 72

ANTHRACENE DERIVATIVES

- detoxication, 1939, 19 326

ANTIBODIES

- antienzyme, in immunity to parasitic worms, 1940, 20 481
- electrical charge and permeability of CNS capillaries, 1942, 22 136
- lead and rate of formation, 1938, 18 565
- localization in area of inflammation, 1938, 18 389
- mobilization in stress, adenocortical hormones, 1950, 30 294
- nature of reaction with antigen, 1943, 23 203
- permeability of CNS capillaries, 1942, 22 132

ANTICHOLINESTERASES

- phosphorus-containing, 1951, 31 327

ANTICOAGULANTS

- in vivo, 1944, 24 297

ANTICONSULSANTS

- characteristics, 1948, 28 416
- mechanisms of action, 1948, 28 414
- methods for study, 1948, 28 412
- review, 1948, 28 409
- structure activity relations, 1948, 28 424

ANTIDIURETIC HORMONE

- cranial nerve stimulation, 1948, 28 145
- evidence for, 1945, 25 586
- exercise, emotion, 1948, 28 144
- neurohypophysis, 1948, 28 143
- sensory nerve stimulation, 1948, 28 145

ANTIFERTILIZIN

- agglutination of eggs, 1948, 28 194
- from eggs, chemical and antigenic properties, 1948, 28 202
- chemical properties, 1948, 28 195
- effects, 1948, 28 201
- fertilization, 1948, 28 202
- natural auto-antibodies, 1948, 28 203
- neutralization of fertilizin, 1948, 28 193
- paralysis of spermatozoa, 1948, 28 194
- role in fertilization, 1948, 28 196
- specificity, 1948, 28 196

ANTIGEN

- in bacterial hypersensitivity, 1941, 21 76
- nature of reaction with antibody, 1943, 23 203
- specific forces between and antibody, 1943, 23 204

ANTIHISTAMINICS

- antagonism to histamine, 1947, 27 551
- pharmacodynamics, 1947, 27 547
- pharmacology, 1947, 27 542
- specificity, 1947, 27 565
- toxicity, 1947, 27 549

ANTIHORMONES

- antisera, 1941, 21 591
- bioassay, 1941, 21 592
- chemical properties, 1941, 21 612
- Collip's theory, 1941, 21 592
- history, 1941, 21 590
- nature, 1941, 21 593, 1941, 21 596

- gastric absorption, 1948, 28 437
 pancreozymin, 1950, 30 57
 paralysis of transmission, 1937, 17 498
 parasympathetic effects, 1937, 17 373
 pilocarpine antagonism, 1937, 17 380
 prostatic secretion, 1945, 25 284
 scorpion venom, 1945, 25 152
 site of action, 1937, 17 392
 smooth muscle, 1944, 24 474
 sympathetic innervation, 1937, 17 380
 therapy for motion sickness, 1949, 29 353
- AUDITORY NERVES**
 action potential, 1938, 18 61, 1938, 18 63
- AUDITORY STIMULI**
 response, extirpation of parts of brain, 1939, 19 309
- AUTACOID**
 definition, 1950, 30 33
- AUTO-ANTIBODIES**
 terminology, 1948, 28 203
- AUTO-ANTIVENIN**
 discussion, 1948, 28 205
- AUTOLYSIS**
 atrophy and, in muscle, 1938, 18 181
 digestion of foreign protein, 1938, 18 178
 latent period, 1938, 18 177
 pH and, 1938, 18 174
- AUTONOMIC NERVOUS SYSTEM**
 antihistaminics, 1947, 27 565
 balance-dynamic equilibrium, 1943, 23 17
 curare, 1947, 27 469
 electrical recording of potentials, 1943, 23 16
 ganglia, 1942, 22 161
 pharmacologic blocking, 1943, 23 13
 physiological and clinical tests, 1943, 23 1
 specific stimulus, tests of reaction, 1943, 23 21
- AUXINS**
 formation in buds, 1938, 18 529
 in leaves, 1938, 18 529
 in oat coleoptile, 1938, 18 528
 in plant, 1938, 18 526
 in roots, 1938, 18 529
 inactivation, 1938, 18 530
 mechanism of action, 1938, 18 542
 physiological, 1938, 18 546
 plant growth, 1938, 18 525
 primary and secondary properties of, 1938, 18 543
 structure and activity, 1938, 18 544
 transport, 1938, 18 542
- AVERTIN**
 inhibition of brain metabolism, 1939, 19 173
 water diuresis, 1945, 25 585
- AVIAN LEUKOSIS**
 virus theory, 1946, 26 69
- AVIDIN**
 biotin complex, 1946, 26 479
 chemical nature, 1946, 26 482
 in nutrition, 1946, 26 481
- AZIDE**
 synthesis of acetylcholine, 1945, 25 619
- BABOON**
 menstrual cycle, 1937, 17 31
- BACTERIA**
 acid fast, phosphatides, 1946, 26 278, 1946, 26 284
 chemo-autotrophic, 1943, 23 338
 biochemical mechanisms, 1943, 23 345
 evolutionary significance, 1943, 23 351
 metabolism, 1943, 23 341
 chemotherapy of infections, 1939, 19 240
 development of resistance to phage, 1936, 16 150
 excitation of chemotaxis in leukocytes, 1946, 26 325
 growth and bacteriophage, 1936, 16 149
 extra and intracellular phage fraction, 1936, 16 144
 hydrolysis of proteins by phage, 1936, 16 149
 hypersensitivity to, 1941, 21 71
 in normal tissues, 1951, 31 195
 phage and morphology, 1936, 16 148
 phagocytosis, in lungs, 1941, 21 125
 resistance to phage, properties, 1936, 16 151
 synthetic media for, 1949, 29 228
- BACTERIOPHAGE**
 action, 1936, 16 129
 adaptation, 1936, 16 142
 anti serum, 1936, 16 159
 as antigen, 1936, 16 157
 classification, 1936, 16 163
 electrical charge, 1936, 16 132
 formation, 1937, 17 149
 independent metabolism, 1936, 16 156
 mechanism of reaction with bacteria, 1936, 16 143
 particulate nature, 1936, 16 130
 physical, chemical agents, 1936, 16 133
 purification, 1936, 16 140
- BAL**
 applications other than metallic poisoning, 1949 29 188
 arsenic poisoning, 1949, 29 180
 clinical use, 1949, 29 182
 chemistry, 1949, 29 175
 metabolism, 1949, 29 180
 pharmacology and toxicology, 1949, 29 177
 reactions with arsenic and other metals, 1949, 29 168
- BARBITAL**
 anesthetic dose in various species, 1939, 19 496
- BARBITURATES**
 acetylcholine metabolism, 1945, 25 632
 anesthetic, 1939, 19 493
 antagonism of drugs, 1939, 19 484
 anticonvulsant, 1939, 19 493
 bladder, 1939, 19 478
 blood constitution, 1939, 19 479
 blood vessels 1939, 19 476
 brain, 1939, 19 472
 circulation, 1939, 19 473
 classification, 1939, 19 487
 clinical indications, 1939, 19 492
 control of convulsions, 1939, 19 485
 detoxication, 1939, 19 480
 elimination, 1939, 19 480
 gastrointestinal muscle, 1939, 19 477

ARTERIOLES

- at nerve endings, vascular response to multiple embolism of lung, 1950, 30 483

ARTHRITIS

- gouty, 17 ketosteroids, 1950, 30 366
- rheumatoid, 17-ketosteroids, 1950, 30 366
- spondyl, ankylosing, 17-ketosteroids, 1950, 30 366

ARTHROPODA

- acetylcholine of tissues, 1946, 26 371
- cephalic dominance, 1946, 26 358
- cholinesterase in nervous and neuromuscular tissues, 1946, 26 369
- hearing, 1946, 26 459
- nervous control of locomotion, 1946, 26 353
- nervous system, electrophysiology, 1947, 27 652
- nutrition, 1941, 21 28
- physiology of excretion, 1938, 18 28
- photoreceptors, 1946, 26 459
- structure and function of nervous system, 1946, 26 447
- synapses, 1947, 27 644
- touch and proprioception, 1946, 26 458
- velocity of nerve conduction, 1946, 26 340
- vision, physiological action, 1945, 25 149

ARTHUS PHENOMENA

- hypersensitivity, 1941, 21 70

ARTICULAR NERVES

- function, 1950, 30 143
- gross and microscopic distribution, 1950, 30 139
- termination, 1950, 30 140

ARTICULAR STRUCTURES *see* **JOINTS****ASBESTOS**

- phagocytosis of, in lung, 1941, 21 121

ASCHNER TEST *see* **OCULO-CARDIAC TEST****ASCIDIA**

- acetylcholine of tissues, 1946, 26 372

ASCORBIC ACID

- analogs, 1945, 25 705
- antagonistic structural analogs, 1947, 27 312
- as catalyst in intermediary metabolism, 1941, 21 300
- as oxidation reduction system, 1939, 19 200
- biological assay, 1936, 16 245
- calcification, 1940, 20 546
- carbohydrate and protein metabolism in hyperthyroidism, 1943, 23 370
- cytoplasm, cell surfaces, 1943, 23 79
- decomposition in vitro, by bacteria, 1948, 28 114
- deficiency, development of diabetes, 1949, 29 60
- oral structures, 1945, 25 450
- tissues changes, 1942, 22 241
- toxic substances and diabetes, 1949, 29 70
- thyroid gland, 1943, 23 369
- dehydroascorbic acid system, inactivation of sympathomimetic amines, 1946, 26 179
- distribution in animal tissue, 1936, 16 249
- function in plants, 1936, 16 248
- glutathione, 1937, 17 14
- hyperthyroidism, 1943, 23 371
- identification and isolation, 1936 16 238
- in adrenal medulla and release of adrenaline, 1936 16 442, 1936, 16 444
- in CNS, 1939, 19 178

in foods, 1936, 16 253

- increased need for, 1948, 28 119
- interrelation with calcium, 1943, 23 76
- intestinal absorption, 1948, 28 109
- localization in cells, 1941, 21 251
- loss in metabolic processes, 1943, 23 88
- metabolic rate in hyperthyroidism, 1943, 23 371
- metabolism of fetus and placenta, 1941, 21 455
- methods of analysis, 1936, 16 243
- of adrenal cortex, rate of hormone secretion, 1950 30 248
- of cells at various ages, 1943, 23 81
- of human and canine prostatic fluids, 1945, 25 285
- of tissue, thyroid activity, 1943, 23 371
- physiological effects, calcium, 1943, 23 91
- physiological functions, 1936, 16 246
- plant growth, 1938, 18 539
- requirement, hyperthyroidism, 1943, 23 370
- role in cell, 1936, 16 442
- scurvy, 1936, 16 254
- synthesis and chemical properties, 1936, 16 240
- synthesis, in vivo, 1936, 16 250
- teeth, 1945, 25 453
- thyrotropic hormone, 1943, 23 371
- wound healing, 1936, 16 383, 1945, 25 456

ASPIRIN

- of bone, 1937, 17 120
- of rat body, diet, 1947, 27 85
- of white, enriched white, and whole wheat flours, 1944, 24 272

ASPARAGINE

- antagonism to β -alanine, 1947, 27 312

ASPARTIC ACID

- antagonistic structural analogs, 1947, 27 312
- intermediary metabolism, 1941, 21 296
- microbiological assay, 1949, 29 247

ASPHYXIA

- acetylcholine metabolism, 1945, 25 631
- cerebral circulation, 1936, 16 568
- potassium, 1940, 20 393
- release of acetylcholine, 1945, 25 624
- respiratory adjustment to, in diving mammal, 1939, 19 112

ATABRINE

- in avian malaria, 1942, 22 197
- mechanism of action in avian malaria, 1942, 22 198

ATHEROSCLEROSIS

- blood lipids, 1943, 23 191
- chemical composition of aorta, 1943, 23 187
- experimental, blood and tissue lipids, 1943, 23 196
- hyperlipemia, 1943, 23 198
- lipids, 1943, 23 185

ATONYL *see* **SODIUM ARSANILATE****ATP ASE**

- thyroxine, and 1951, 31 216

ATROPINE

- antagonism to acetylcholine, 1945, 25 610
- arthropod nervous system, 1946, 26 470
- blocking action of parasympathetic mechanism, 1943, 23 15
- central effects, 1945, 25 611
- eserine, prostigmine, 1945, 25 610

- excretion, 1941, 21 463
 continuity of, 1941, 21 476
 loss, 1941, 21 468
 oral, fate, 1941, 21 472
 production, 1941, 21 463
 reexcretion, 1941, 21 467
 secretion, diurnal variations, 1941, 21 477
- BILE PIGMENTS**
 metabolism, 1951, 31 392
 origin, 1951, 31 395
 production, 1951, 31 395
 transport, 1951, 31 397
 Van den Bergh reaction, 1951, 31 397
- BILIRUBIN**
 of serum, clinical significance of changes, 1940, 20 15
- BILLS, A. G.** Fatigue in mental work, 1937, 17 436
- BIOCORTICIDS**
 of urine, adrenocortical secretion, 1905, 30 254
- BIOLOGICAL COMPLETION**
 general considerations, 1947, 27 311
 reversal of reaction, 1947, 27 312
- BIOLOGICAL RHYTHMS**
 physiology, 1949, 29 1
- BIOMETER**
 for microrespiration, 1943, 23 51
- BIOTIN**
 analog, 1945, 25 709
 antagonistic structural analogs, 1947, 27 312
 assay, 1946, 26 479
 avidin biotin complex, 1946, 26 479
 CO₂ fixation, 1951, 31 92
 carcinogenesis, 1944, 24 195
 deficiency, raw egg white, 1948, 28 114
 excretion, 1946, 26 485
 melanin formation, 1950, 30 110
 microbiological assay, 1948, 28 256
 extraction procedure, 1948, 28 271
 nutritional requirement, 1946, 26 481
 occurrence, 1946, 26 480
 plant growth, 1938, 18 539
- BIOTIN SULFONE**
 antagonism to biotin, 1947, 27 312
- BIRDS**
 amino acids in tissues, 1949, 29 254
 blood production, 1942, 22 376
 calcium metabolism, 1943, 23 139
 development of joints, 1950, 30 130
 melanophores, 1948, 28 387, 1948, 28 397
 phosphorus metabolism, 1943, 23 141
 pigment pattern, 1948, 28 396
 rhythmic activity, 1949, 29 7
 rhythmic pigment patterns, 1948, 28 400
 rhythmic changes in body temperature, 1949, 29 10
- BIREFRINGENCE**
 crystalline, 1939, 19 274
 determination of ultrastructure of protoplasm, 1939, 19 274
 form, 1939, 19 276
 photoelastic, 1939, 19 275
- BIRNIE, J. H.** *see* GAUNT, R
- BISHOP, G. H.** Cutaneous sense, 1946, 26 77
- BISMARCK BROWN**
 permeability of C N S capillaries to, 1942, 22 128
- BISMUTH**
 detection in cells, 1941, 21 245
 melanin formation, 1950, 30 120
- BLACK TONGUE**
 nicotinic acid deficiency, 1942, 22 267
- BLADDER**
 action potentials, 1944, 24 479
 barbiturates, 1939, 19 478
 silica of, 1938, 18 334
- BLALOCK, A.** Experimental hypertension, 1940, 20 159
- BLAST INJURY**
 concussion, 1945, 25 315
- BLIND STAGGERS**
 pathology, 1943, 23 313
- BLOCH, K.** Metabolism of acetic acid in animal tissues, 1947, 27 574
- BLOOD**
 appearance in circulatory failure, 1938, 18 94
 arterial, oxygen capacity, acclimatization, 1943, 23 177
 chemical changes in carbon monoxide anoxemia, 1940, 20 330
 clinical significance of chemical changes, 1940, 20 1
 composition, barbiturates, 1939, 19 479
 respiratory movements, 1947, 27 10
 seasonal variation, 1949, 29 21
 equilibrium with milk, 1944, 24 356
 extraction of androgens from, 1937, 17 165
 extramedullary production, 1942, 22 375
 forming tissues, phylogenetic history, 1942, 22 381
 in Niemann Pick's disease, 1946, 26 305
 iron transport, 1940, 20 46
 movement of water to extracellular fluid, 1944, 24 491
 oxygen storage, 1939, 19 122
 oxygen tension, 1945, 25 19
 phlorhizin, 1945, 25 264
 phospholipid turnover, 1942, 22 301
- BLOOD CELLS**
 in tissue culture, 1937, 17 601
 of insects, formation, 1940, 20 75
- BLOOD COAGULATION**
 androgens, 1937, 17 217
 blood calcium, 1936, 16 640
 calcium, 1936, 16 648
 in anaphylaxis, 1941, 21 571
 indicator of adrenergic effects, 1943, 23 10
 liver, 1942, 22 57
 snake venom, 1945, 25 160
- BLOOD COENZYME** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- BLOOD CONSTITUENTS**
 amino acids in, 1949, 29 254
 antithrombin, 1944, 24 297
 calcium, 1936, 16 640
 fetal, silicon of, 1938, 18 334
 nicotinic acid of, 1940, 20 264
 organic phosphates of, 1941, 21 410
 acidosis, 1941, 21 423

BARBITURATES

- habituation, 1939, 19 491
- heart, 1939, 19 474
- hypnotic agents, 1939, 19 492
- in neuropsychiatry, 1939, 19 494
- intoxication, 1939, 19 490
- kidney function, 1939, 19 478
- metabolism, 1939, 19 479
- pathological changes due to, 1939, 19 490
- placental permeability, 1939, 19 478
- porphyrins, 1940, 20 458
- potentiation of anesthesia, 1939, 19 481
 - of morphine, 1939, 19 483
- pre-anesthetic depressant, 1939, 19 493
- protective action in high oxygen poisoning, 1945, 25 95
- respiration, 1939, 19 473
- respiratory center, 1939, 19 473
- secretory nerves, 1939, 19 477
- smooth muscle, 1939, 19 477
- spinal cord, 1939, 19 477
- status of problem, 1939, 19 472
- structure and activity, 1939, 19 488
- therapy for motion sickness, 1949, 29 355
- toxicology, 1939, 19 489
- ureters, 1939, 19 478
- urinary coproporphyrins, 1947, 27 497
- uterus, 1939, 19 478
- vagus, 1939, 19 473
- vasomotor mechanisms, 1939, 19 476

BARBITURIC ACID

- antagonism to uracil, 1947, 27 314
 - diabetogenic action, 1948, 28 323
- BARCROFT, J Fetal circulation and respiration, 1936, 16 103

BARD, P *see* TYLER, D B

BARKER, S B Thyroid hormone, 1951, 31 205

BARNES, R H *see* BURR, G O

BARRON, D H Fetal circulation at birth, 1944, 24 277

BARRON, E S G Cellular oxidation systems, 1939, 19 184

BAROMETRIC PRESSURE

adrenal cortex, 1944, 24 109

BARTELMEZ, G W Menstruation, 1937, 17 28

BASAL METABOLIC RATE

- exophthalmos, 1949, 29 268
- in obese women, 1944, 24 20
- in subacute mountain sickness, 1943, 23 170
- iodine of blood, 1940, 20 359
- menstrual cycle, 1949, 29 17
- seasonal variations, 1949, 29 20

BAT

- number of fibers in optic nerve, 1942, 22 207

BAUER, W, ROPES, MARIAN W AND WAINE, H. Physiology of articular structures, 1940, 20 272

BAUMANN, C A AND STARE, F J Coenzymes, 1939, 19 353

BEACH, F A. Sexual behavior in mammals, 1947, 27 240

BEADLE, G W Genetics and metabolism in neurospora, 1945, 25 643

BEAN, J W Effects of oxygen at increased pressure, 1945, 25 1

BEARD, J W Properties of animal viruses, 1948, 28 349

BEAVER

- duration of dives by, 1939, 19 115
- oxygen capacity of blood, 1939, 19 119
- survival of submersion, 1939, 19 114

BED-BUGS

- feeding cycle, 1949, 29 19

BEEF

- nicotinic acid of, 1940, 20 264

BEGONIE AND TRIBONDEAU'S LAW

- primitive cells, radiation, 1944, 24 228

BEHAVIOR

- chronic brain stem lesions 1950, 30 470

BELLADONNA ALKALOIDS

- motion sickness, 1949, 29 352

BENADRYL

- acute toxicity, 1947, 27 550
- minimum effective doses, 1947, 27 552
- pharmacology, 1947, 27 546

BENDS

- site of origin, 1947, 27 386

BELT, T H *see* KING, E J β -BENZHYDRYLOXYETHYLTRIMETHYLAMMONIUM IODINE

- minimum effective doses, 1947, 27 552

BENZYL DERIVATIVES

- industrial health hazard, 1942, 22 183

BENZYMIDAZOLE

- antagonism to adenine, 1947, 27 312
- to guanine, 1947, 27 312

BENZOYLCHOLINE *see* CHOLINE COMPOUNDS

BERRILL, N J Factors in malignancy of cancer, 1943 23 101

BERYLLIUM

- industrial hazard, 1945, 25 188

BESSEY, O A. *see* WOLBACH, S B

BETAINE COMPOUNDS

- arseno-, 1944, 24 152
- lipotropic action, 1944, 24 151, 1944, 24 152
- α methyl, 1944, 24 152
- phospho-, 1944, 24 152

BETHELL, F H *see* STURGIS, C C

BEYER, K H Sympathomimetic amines, 1946, 26 169

BEZOLD EFFECT *see* VERATRUM ALKALOIDS

BICARBONATE

- of synovial fluid and serum, 1940, 20 284

BILE

- fat absorption, 1939, 19 559, 1940, 20 565
- salts, injected, fate, 1941, 21 469
- secretion, morphine, 1937, 17 640
- volume, bile acids, 1941, 21 472

BILE ACIDS

- absorption from intestine, 1941, 21 465
- analytical methods, 1941, 21 464
- bile volume, 1941, 21 472
- circulation, 1941, 21 463
- conjugation, 1941, 21 463, 1941, 21 473
- protein formation, 1941, 21 475
- elimination, diagnostic use, 1941, 21 482
- endogenous production, 1941, 21 468

- excretion, 1941, 21 463
 continuity of, 1941, 21 476
 loss, 1941, 21 468
 oral, fate, 1941, 21 472
 production, 1941, 21 463
 reexcretion, 1941, 21 467
 secretion, diurnal variations, 1941, 21 477
- BILE PIGMENTS**
 metabolism, 1951, 31 392
 origin, 1951, 31 395
 production, 1951, 31 395
 transport, 1951, 31 397
 Van den Bergh reaction, 1951, 31 397
- BILIRUBIN**
 of serum, clinical significance of changes, 1940, 20 15
- BILLS, A. G.** Fatigue in mental work, 1937, 17 436
- BIOCORTICIDS**
 of urine, adrenocortical secretion, 1905, 30 254
- BIOLOGICAL COMPLETION**
 general considerations, 1947, 27 311
 reversal of reaction, 1947, 27 312
- BIOLOGICAL RHYTHMS**
 physiology, 1949, 29 1
- BIOMETER**
 for microrespiration, 1943, 23 51
- BIOTIN**
 analog, 1945, 25 709
 antagonistic structural analogs, 1947, 27 312
 assay, 1946, 26 479
 avidin biotin complex, 1946, 26 479
 CO₂ fixation, 1951, 31 92
 carcinogenesis, 1944, 24 195
 deficiency, raw egg white, 1948, 28 114
 excretion, 1946, 26 485
 melanin formation, 1950, 30 110
 microbiological assay, 1948, 28 256
 extraction procedure, 1948, 28 271
 nutritional requirement, 1946, 26 481
 occurrence, 1946, 26 480
 plant growth, 1938, 18 539
- BIOTIN SULFONE**
 antagonism to biotin, 1947, 27 312
- BIRDS**
 amino acids in tissues, 1949, 29 254
 blood production, 1942, 22 376
 calcium metabolism, 1943, 23 139
 development of joints, 1950, 30 130
 melanophores, 1948, 28 387, 1948, 28 397
 phosphorus metabolism, 1943, 23 141
 pigment pattern, 1948, 28 396
 rhythmic activity, 1949, 29 7
 rhythmic pigment patterns, 1948, 28 400
 rhythmic changes in body temperature, 1949, 29 10
- BIREFRINGENCE**
 crystalline, 1939, 19 274
 determination of ultrastructure of protoplasm, 1939, 19 274
 form, 1939, 19 276
 photoelastic, 1939, 19 275
- BIRNIE, J. H.** *see* GAUNT, R
- BISHOP, G. H.** Cutaneous sense, 1946, 26 77
- BISMARCK BROWN**
 permeability of C N S capillaries to, 1942, 22 128
- BISMUTH**
 detection in cells, 1941, 21 245
 melanin formation, 1950, 30 120
- BLACK TONGUE**
 nicotinic acid deficiency, 1942, 22 267
- BLADDER**
 action potentials, 1944, 24 479
 barbiturates, 1939, 19 478
 silica of, 1938, 18 334
- BLALOCK, A.** Experimental hypertension, 1940, 20 159
- BLAST INJURY**
 concussion, 1945, 25 315
- BLIND STAGGERS**
 pathology, 1943, 23 313
- BLOCH, K.** Metabolism of acetic acid in animal tissues, 1947, 27 574
- BLOOD**
 appearance in circulatory failure, 1938, 18 94
 arterial, oxygen capacity, acclimatization, 1943, 23 177
 chemical changes in carbon monoxide anoxemia, 1940, 20 330
 clinical significance of chemical changes, 1940, 20 1
 composition, barbiturates, 1939, 19 479
 respiratory movements, 1947, 27 10
 seasonal variation, 1949, 29 21
 equilibrium with milk, 1944, 24 356
 extraction of androgens from, 1937, 17 165
 extramedullary production, 1942, 22 375
 forming tissues, phylogenetic history, 1942, 22 381
 in Niemann Pick's disease, 1946, 26 305
 iron transport, 1940, 20 46
 movement of water to extracellular fluid, 1944, 24 491
 oxygen storage, 1939, 19 122
 oxygen tension, 1945, 25 19
 phlorhizin, 1945, 25 264
 phospholipid turnover, 1942, 22 301
- BLOOD CELLS**
 in tissue culture, 1937, 17 601
 of insects, formation, 1940, 20 75
- BLOOD COAGULATION**
 androgens, 1937, 17 217
 blood calcium, 1936, 16 640
 calcium, 1936, 16 648
 in anaphylaxis, 1941, 21 571
 indicator of adrenergic effects, 1943, 23 10
 liver, 1942, 22 57
 snake venom, 1945, 25 160
- BLOOD COENZYME** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- BLOOD CONSTITUENTS**
 amino acids in, 1949, 29 254
 antithrombin, 1944, 24 297
 calcium, 1936, 16 640
 fetal, silicon of, 1938, 18 334
 nicotinic acid of, 1940, 20 264
 organic phosphates of, 1941, 21 410
 acidosis, 1941, 21 423

BLOOD CONSTITUENTS

- alkalosis, 1941, 21 426
- anemias, 1941, 21 432
- disease, 1941, 21 423
- distribution in plasma and cells, 1941, 21 412
- general phosphorus metabolism, 1941, 21 421
- glycolysis, 1941, 21 417
- hypochloremia, 1941, 21 426
- methods, 1941, 21 411
- nephritis, 1941, 21 426
- overdosage of irradiated ergosterol, 1941, 21 430
- parathyroid hormone, 1941, 21 431
- rickets, 1941, 21 429
- oxygen saturation in fetus, 1936, 16 112
- protein, clinical significance of changes, 1940, 20 2
- silicon, 1938, 18 336
- zinc, 1949, 29 372

BLOOD DYSCRASIAS

- not responding to folic acid, 1948, 28 92

BLOOD COENZYME *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE

BLOOD FLOW

- epinephrine, respiratory metabolism, 1951, 31 172
- gas solubilities, 1947, 27 370
- high oxygen tension, 1945, 25 98
- in mother and fetus, 1936, 16 118
- peripheral, heat, 1947, 27 211

BLOOD FORMATION

- cobalt, 1940, 20 54
- copper, 1940, 20 48
- metallic elements, 1940, 20 41

BLOOD GASES

- brain circulation, 1936, 16 556
- exchange between fetus and mother, 1936, 16 118

BLOOD HEMIN SYSTEM

- oxidation reduction potentials, 1936, 19 193

BLOOD PRESSURE

- adrenalectomy, 1944, 24 94
- adrenocortical hormones and, in stress, 1950, 30 294
- antihistamines, 1947, 27 555
- autonomic innervation studies, 1943, 23 5
- cardiac arrhythmia, anesthesia, 1941, 21 340
- cerebral circulation, 1936, 16 553
- circulatory failure, 1938, 18 86
- fall in, 1938, 18 88
- ferritin, 1951, 31 507
- heart failure, 1938, 18 98
- high oxygen tension, 1945, 25 95
- in fetus, 1936, 16 108
- in multiple embolism of lung, 1950, 30 479
- intraventricular injection of acetylcholine, 1945, 25 601
- neurohypophysis, 1948, 28 150
- nucleic acids, 1936, 16 297
- veratrum alkaloids, 1946, 26 392

BLOOD PRESSURE, Low

- orthostatic, vertical posture, 1943, 23 239

BLOOD PRESSURE, VENOUS

- cardiac function, 1950, 30 13
- circulatory failure, 1938, 18 86
- edema, 1950, 30 25
- epinephrine, 1950, 30 16

- fluid filtration, blood volume, 1950, 30 2
- in fetus, 1936, 16 109
- in multiple embolism of lung, 1950, 30 479
- interstitial pressure, 1950, 30 12
- meaning, 1950, 30 2
- measurement, 1950, 30 23
- plasma protein, 1950, 30 5
- plethora, 1950, 30 18
- rest, 1950, 30 12
- variability of resting, 1950, 30 23
- vascular volume and effective blood volume, 1950, 30 6
- venomotor tone, 1950, 30 19

BLOOD SUGAR

- clinical significance of changes, 1940, 20 12
- diurnal variation, 1949, 29 13
- exercise, 1942, 22 41
- fructose, galactose, 1936, 16 178
- indicator of adrenergic effects, 1943, 23 11
- insulin, 1947, 27 39
- maintenance by liver, 1942, 22 54
- neurohypophysis, 1948, 28 149
- origin, regulation, and utilization, 1941, 21 140
- regulation, 1941, 21 156
- response to alloxan, 1948, 28 309
- site of formation, 1941, 21 141
- toxemia, 1939, 19 441
- utilization vs oxidation, 1941, 21 171

BLOOD VESSELS

- acetylcholine, 1950, 30 184
- arterio-venous anastomoses, 1938, 18 229
- atropine, 1937, 17 380
- barbiturates, 1939, 19 476
- decompression sickness, 1947, 27 378
- epinephrine, 1950, 30 184
- high oxygen tension, 1945, 25 98
- histamine, 1950, 30 184
- in multiple embolism of lung, 1950, 30 479
- mesenteric, cross-section area, 1950, 30 7
- volume, 1950, 30 10
- nor-epinephrine, 1950, 30 189
- of rabbit ear, acetylcholine, 1950, 30 185
- histamine, epinephrine, 1950, 30 186
- oxygen tension, 1945, 25 16
- pathological changes, hypertension, 1947, 27 126
- small, spontaneous hemostasis, 1951, 31 114
- volume, venous pressure, blood volume, 1950, 30 10

BLOOD VOLUME

- circulating, 1944, 24 492
- clinical significance of changes, 1940, 20 2
- effective, vascular volume, 1950, 30 8
- venous pressure, 1950, 30 6
- fetal, 1936, 16 104
- in pregnancy, 1944, 24 515
- in shock, 1942, 22 109
- relation to ability to dive, 1939, 19 118
- vascular dead space, 1950, 30 22
- venous pressure, fluid filtration, 1950, 30 2

BLOOD-BRAIN BARRIER *see* HEMATO-ENCEPHALIC BARRIER

- BLOOM, W Cellular differentiation and tissue culture, 1937, 17 589

- BLOOR, W. R. Fat transport in the animal body, 1939, 19 557
- BLUM, H. F. Physiological effects of sunlight on man, 1945, 25 483
- BOCK, J. C. The benign meliturias, 1944, 24 169
- BODIAN, D. Cytological aspects of synaptic function, 1942, 22 146
- BODY COMPOSITION
amino acids, 1949, 29 254
during growth of rats, 1947, 27 83
gas solubilities, 1947, 27 369
- BODY FAT
deposition from preformed fat, 1948, 28 454
dietary fat, 1937, 17 347
endocrine function and distribution, 1944, 24 35
oxygen storage, 1939, 19 122
- BODY FLUID
calcium ions, 1940, 20 523
phlorhizin, 1945, 25 264
- BODY SIZE
chromoprotein relationship, 1951, 31 416
food utilization, 1947, 27 535
lack of correlation between, diving endurance and, 1939 19 115
metabolic rate, 1947, 27 511
prediction of metabolic rate from, 1947, 27 532
tissue metabolism, 1947, 27 521
- BODY SURFACE
calculation of "true," 1947, 27 514
metabolic rate, 1947, 27 513
- BODY TEMPERATURE
at high oxygen tension, 1945, 25 93
diurnal variation, 1949, 29 10
drug action, 1946, 26 247
environmental heat, 1947, 27 210
ergonovine, 1938, 18 318
intensity and duration of drug action, 1946, 26 268
menstrual cycle, 1949, 29 16
physiological effects, 1946, 26 248
rate of drug action, 1946, 26 268
respiration, 1944, 24 329
rhythmic changes, 1949, 29 10
- BODY WEIGHT
hyperthyroidism, vitamin B-complex, 1943, 23 364
insensible loss, and water loss, 1942, 22 1
metabolic weight, 1947, 27 525
specific dynamic action of food, 1944, 24 22
- BONE
alveolar, diet, 1945, 25 465
mineral deficiency, 1945, 25 460
vitamin deficiency, 1945, 25 444
breaking strength and composition, 1943, 23 146
estrogens, 1943, 23 153
callus formation, injected estrogens, 1943, 23 152
cells, function, 1937, 17 119, 1937 17 133
composition, 1937, 17 119
sex differences, 1943, 23 147
decompression sickness, 1947, 27 382
formation, riboflavin, 1945, 25 447
growth in rats, 1947, 27 79
histology, estrogens, 1943, 23 154
injected estrogens, 1943, 23 151
organic matrix, 1937, 17 120
ossification centers, 1943, 23 145
periosteum, decompression sickness, 1947, 27 382
radiation effects, 1944, 24 230
salt, formation and composition, 1940, 20 528
sickle cell anemia, 1944, 24 454
silica of, 1938, 18 334
size, androgens, 1943, 23 152
staining with organic dyes, 1937, 17 131
tissue culture, 1937, 17 602
vitamin A, 1942, 22 237, 1942, 22 240
vitamin D, 1940, 20 544, 1942, 22 247, 1942, 22 250
- BONE MARROW
anatomy, 1944, 24 46
biosynthesis, 1951, 31 382
cellular composition, 1944, 24 46
decompression sickness, 1947, 27 382
methods of obtaining specimens, 1944, 24 47
physiology, 1944, 24 46
sternal, cell identification, 1944, 24 55
differential cell count, 1944, 24 56
nucleated cell counts, 1944, 24 53
- BONNER, J. *see* THIMAN, K. V.
- BORIC ACID
permeability of skin, 1946, 26 532
- BORSOOK, H. Protein turnover, 1950, 30 206
- BOTULINUS TOXIN
permeability of C N S capillaries to, 1942, 22 130
- BOUCKAERT, J. P. AND DUVE, C. DE. The action of inulin, 1947, 27 39
- BOURNE, G. Role of vitamin C in the organism, 1936, 16 442
- BOURNE, M. C. Metabolic factors in cataract production, 1937, 17 1
- BRADLEY, H. C. Autolysis and atrophy, 1937, 18 173
- BRAIN
acetylcholine, 1946, 26 371
ammonia in, 1950, 30 550
anemia, 1936, 16 568
experimental hypertension, 1940, 20 164
arteries of, 1936, 16 546
ascorbic acid of, 1939, 19 178
barbiturates, 1939, 19 472
blood vessels physical characteristics, 1936, 16 548
cephalic dominance, 1946, 26 357
chick, vitamin E deficiency, 1943, 23 46
cholinesterase in, 1951, 31 337
circulation, 1936, 16 545
chemical agents, 1936 16 550
cytochrome oxidase, 1939, 19 148
extirpations and higher processes in, 1939, 19 303
fetal, silicon of, 1938, 18 334
function in arrest of circulation, 1950, 30 375
glutamic acid in, 1950, 30 549
physiological effects of concussion, 1945, 25 296
projection of cutaneous sense in, 1946, 26 86
revival, in isolated head, 1950, 30 376
silica of, 1938, 18 334
survival and revival after arrest of circulation, 1950, 30 375
toxic effects of ammonia, 1950, 30 551

- BRAIN**
 veins, 1936, 16 546
 visual centers, 1942, 22 205
- BRAIN METABOLISM**
 acetylcholine synthesis, 1939, 19 177, 1945, 25 617
 allylisopropyl barbituric acid, 1939, 19 169
 ascorbic acid, 1939, 19 178
 carbohydrate, 1939, 19 154
 chloretone, 1939, 19 170
 ethylurethane, 1939, 19 169
 inhibition by amines, 1939, 19 174
 by p-aminonaphthol, 1939, 19 177
 by dinitro-o-cresol, 1939, 19 177
 by dyes, 1939, 19 177
 by fluoride, 1939, 19 176
 by dl glyceraldehyde, 1939, 19 176
 by iodoacetate, 1939, 19 176
 by lead, 1939, 19 177
 by metrazol, 1939, 19 176
 by pyocyanine, 1939, 19 177
 narcotics, 1939, 19 168
 oxidation of acetate, 1939, 19 165
 of acetoacetate, 1939, 19 165
 of acetylpyruvate, 1939, 19 166
 of alcohol, 1939, 19 166
 of amines, 1939, 19 167
 of amino acids, 1939, 19 167
 of citrate, 1939, 19 166
 of fatty acids, 1939, 19 167
 of gluconate, 1939, 19 166
 of glutamic acid, 1950, 30 556
 of glycerol, 1939, 19 166
 of α glycerophosphate, 1939, 19 165
 of hexosediphosphate, 1939, 19 166
 of hexosemonophosphate, 1939, 19 166
 of α hydroxyacetoacetate, 1939, 19 166
 of β -hydroxybutyrate, 1939, 19 165
 of inositol, 1939, 19 167
 of α keto adipate, 1939, 19 166
 of α ketoglutarate, 1939, 19 166
 of lactic acid, 1939, 19 156
 of l malate, 1939, 19 165
 of phosphoglycerate, 1939, 19 166
 of succinic acid, 1939, 19 164
 oxygen consumption, *evipan*, 1939, 19 173
 in vivo, 1939, 19 138
 ions, 1939, 19 167
 temperature, 1939, 19 145
 phospholipid turnover, 1942, 22 304
 Q_{10} , sugars and, 1939, 19 150
 R Q, *in vitro*, 1939, 19 144
 in vivo, 1936, 16 579, 1939, 19 139
 respiration, carbon monoxide, 1939, 19 148
 cyanide 1939, 19 147
 in insulin hypoglycemia, 1939, 19 153
 in vitro, 1939, 19 140
 riboflavin, 1939, 19 178
 slices, ammonia formation, 1950, 30 551
 thiamin, 1939, 19 163
 thyroxin and, 1951, 31 211
 utilization of ketone bodies, 1945, 25 415
 values for, 1936, 16 577
 vascularity, 1936, 16 577
- BRAIN STEM**
 acute lesions, EEG, 1950, 30 470
 chronic lesion, behavioral changes, 1950, 30 470
 EEG, 1950, 30 470
 eserine, 1945, 25 607
 reticular formation, 1950, 30 459
 cerebellofugal connections, 1950, 30 462
 corticothalamic connections, 1950, 30 461
 decerebrate rigidity, 1950, 30 462
 EEG, 1950, 30 469
 hypokinesia, 1950, 30 466
 somnolence, 1950, 30 467
 spasticity, 1950, 30 463
 reticulo-spinal facilitation, 1950, 30 460
 suppression, 1950, 30 459
- BREAD**
 enriched, American experience, 1944, 24 261
 Canadian experience, 1944, 24 260
 feeding experiments, 1944, 24 269
 opposition, 1944, 24 266
 palatability, 1944, 24 264
 problems, 1944, 24 239
 in war, Danish experience, 1944, 24 245
 English experience, 1944, 24 245
 nutritional value, and palatability, 1944, 24 246
 quality, 1944, 24 245
 nutritive value, 1944, 24 240
 role in nutrition, 1944, 24 242
 white, fortification, English experience, 1944, 24 250
 whole wheat, feeding experiments, 1944, 24 269
 palatability, 1944, 24 264
 problems, 1944, 24 252
- BREAST**
 nipple, local action of estrogens, 1948, 28 30
 vitamin A distribution, 1944, 24 217
- BRIGHTNESS**
 response to differences, extirpations, 1939, 19 304
- BRILLIANT GREEN**
 serum system, hemolysis, 1936, 16 45
- BRITISH ANTI-LEWISITE** *see* BAL
- BROBECK, J. R.** Obesity in animals with hypothalamic lesions, 1946, 26 541
- BROM METHYL ETHYL KETONE**
 industrial health hazard, 1942, 22 176
- BROMIDES**
 antiepileptic, 1948, 28 416
 permeability of C N S capillaries, 1942, 22 134
- BROMO-ACETIC ACID**
 cardiac metabolism, 1936, 16 608
- BROMOACETONE**
 industrial health hazard, 1942, 22 176
- BRONCHI**
 mucosa, epithelial cells as phagocytes, 1941, 21 133
- BRONCHIOLES**
 antihistamines, 1947, 27 551
 dilatation, nucleic acid derivatives, 1936, 16 306
- BRONCHOCONSTRICTION**
 multiple embolism of lung, 1950, 30 478
- BROWN ADIPOSE TISSUE**
 characteristics, 1948, 28 461

- BROWN, G. L. Transmission at nerve endings by acetylcholine, 1937, 17 485
- BRUNNER'S GLANDS
anatomy, 1941, 21 36
secretion, 1941, 21 36
- BRUNTON, C. Exophthalmos, 1949, 29 260
- BRUSSEL SPROUTS
goiter, 1950, 30 527
- BUCHANAN, J. M. AND HASTINGS, A. B. Isotopic carbon in intermediary metabolism, 1946, 26 120
- BUDS
inhibition of development by auxins, 1938, 18 534
- BUEDING, E. Metabolism of parasitic helminths, 1949, 29 195
- BUFFER ACTION
law of mass action, 1938, 18 509
- BULLOCK, T. H. Problems in invertebrate electrophysiology, 1947, 27 643
- BURN, J. H. Adrenaline and acetylcholine in the nervous system 1945, 25 377
—, Effects of local hormones, 1930, 30 177
—, Sympathetic vasodilator fibres, 1938, 18 137
- BURNET, F. M. Mucoproteins and virus action, 1951, 31 131
- BURNS
anemia due to, 1945, 25 560
area of depth, 1945, 25 541
classification, 1945, 25 545
cleansing, 1945, 25 541
compression treatment, 1945, 25 537
environmental temperature, 1945, 25 549
general disturbances of patient, 1945, 25 545
healing and regeneration, 1945, 25 543
hypoproteinemia due to, 1945, 25 562
increased lymphatic flow, 1945, 25 539
infections, 1945, 25 540
iver, 1945, 25 555
local lesion, 1945, 25 533
morphine and anesthesia in, 1945, 25 545
pulmonary edema, 1945, 25 549
separation of sloughs, 1945, 25 542
therapy, endocrine factors, 1945, 25 564
metabolic factors, 1945, 25 564
nutritional factors, 1945, 25 563
plasma loss, 1945, 25 547
sodium, 1945, 25 557
tannic acid, 1945, 25 554
thermal, problems, 1945, 25 531
treatment, 1945 25 531
tissue injuries, 1945, 25 553
toxemia, 1945, 25 550
- BURR, G. O. AND BARNES, R. H. Non-caloric functions of dietary fats, 1943, 23 256
- BURROWS' THEORY
wound healing, 1936, 16 393
- BUTADIENE
1,3, anesthetic gas, 1938, 18 470
- BUTANE
iso-, anesthetic gas, 1938, 18 454
n-, anesthetic gas, 1938, 18 454
- BUTTER FAT
nutritive value, 1945, 25 678
- BUTYL THIAMIN
antagonism to thiamin, 1947, 27 314
- BUTTER YELLOW
hepatic tumors, choline, 1944, 24 150
- BUTYL ALCOHOL
growth response of plant-like flagellates to, 1941, 21 3
permeability of colloidal membranes to, 1936, 16 56
- BUTYLENES
 α , anesthetic gas, 1938, 18 460
 β -, anesthetic gas, 1938, 18 461
 γ -, anesthetic gas, 1938, 18 461
- BUTYRIC ACID
fixation of carbon dioxide, 1946, 26 215
growth response of plant-like flagellates to, 1941, 21 3
- BUTYRYLCHOLINE *see* CHOLINE COMPOUNDS
- CABBAGE DIET
goiter, 1949, 29 264, 1950, 30 522
- CADMIUM
industrial hazard, 1945, 25 187
intoxication, BAL, 1949, 29 186
poisoning symptoms, 1945, 25 187
- CAFFEINE
cerebral blood flow, 1936, 16 554
urea clearance, 1941, 21 536
- CALCIFEROL
calcification, 1940, 20 545
- CALCIFICATION
chemistry, 1940, 20 522
hormones, 1940, 20 551
lipids, 1943, 23 195
parathyroid hormone, 1940, 20 546
pregnancy, 1940, 20 550
thyroid, 1940, 20 549
vitamin D, 1942, 22 251
vitamins, 1940, 20 545
- CALCIUM
absorption, 1940, 20 533
species differences, 1940, 20 540
antagonism to curare, 1947, 27 468
to veratrum alkaloids, 1946, 26 426
availability, 1940, 20 534
boundary structure of cells, 1943, 23 76
cataract production, 1937, 17 21
clinical significance of changes, 1940, 20 24
colloids of blood, 1936, 16 645
deficiency, bone, dentin, 1945, 25 461
detection in cells 1941, 21 243
diffusible, of blood, 1936, 16 645
in white, enriched white, and whole wheat flours, 1944, 24 272
interrelation with ascorbic acid, 1943, 23 76
intestinal absorption, 1948, 28 110
lysis of platelets, 1936, 16 658
maintenance requirements, 1940, 20 541
metabolism, cereals, 1944, 24 266
estrogens, androgens, 1943, 23 139
fish and amphibia, 1943, 23 139
in infants, 1939, 19 416
in various species, 1943, 23 139
of fetus and placenta, 1941, 21 453

CALCIUM

- non-diffusible, 1936, 16 642
- of aorta, age, 1943, 23 186
- in atherosclerosis, 1943, 23 190
- of blood and blood coagulation, 1936, 16 640
- of bone, 1937, 17 120
- of human and canine prostatic fluids, 1945, 25 285
- of muscle, denervation, 1939, 19 17
- and plasma, 1936, 16 455
- of serum, physical state, 1936, 16 642
- and synovial fluid, 1940, 20 284
- sex and steroid hormones, 1943, 23 158
- parathyroid hormone, 1940, 20 548
- physiological effects, ascorbic acid, 1943, 23 91
- requirement of man, 1940, 20 541
- reserves, absorption, 1940, 20 538
- retention, species differences, 1940, 20 540
- role in blood formation, 1940, 20 55
- synthesis of acetylcholine, 1945, 25 621

CALCIUM CITRATE

- dissociation, 1938, 18 512

CALCIUM PHOSPHATE

- chemistry, 1937, 17 122
- ionization products, 1940, 20 529
- salts in bone, 1937, 17 123

CALCIUM PHOSPHORYLCHOLINE CHLORIDE *see* CHOLINE COMPOUNDS

CALCIUM PROTEINATE

- in blood, 1936, 16 642

CALLIACTIS *see* COELENTERATACALLINECTES *see* ARTHROPODA

CALORIES

- development of diabetes, 1949, 29 57
- intake, carcinogenesis, 1944, 24 189
- requirement, environmental heat, 1947, 27 217
- restriction, oxidation of ingested glucose, 1938, 18 256

CALVERY, H O, DRAIZE, J H AND LAUG, E P Metabolism and permeability of normal skin, 1946, 26 495

—, *see* NELSON, E E

CAMBARUS *see* CRUSTACEACAMPBELL, D H *see* PAULING, LCANCER *see* NEOPLASMSCANITIES *see* ACHROMOTRICHIA

CANNON, P R Specific agglutinins and precipitins, 1940, 20 89

CAPILLARIES

- adrenal insufficiency, 1944, 24 112
- density, surface, gas solubilities, 1947, 27 371
- endocapillary layer, 1947, 27 441
- endothelium, 1947, 27 439
- fragility, dicumarol, 1944, 24 310
- intercellular cement, 1947, 27 440
- pericapillary sheath, 1947, 27 442
- topography of bed, 1947, 27 445
- wall, architecture, 1947, 27 439, 1947, 27 445
- injury, in inflammation, 1938, 18 370
- micromanipulative studies, 1947, 27 444

CAPILLARY MICRORESPIROMETER

- for tissue microrespiration, 1943, 23 60

CAPILLARY PERMEABILITY

- adrenocortical hormones, 1949, 29 295
- in stress, 1950, 30 294
- antihistamines, 1947, 27 557
- C N S, to aniline dyes, 1942, 22 126
- theoretical considerations, 1942, 22 138
- to antibodies, 1942, 22 132
- to drugs, 1942, 22 134
- to polar substances, 1942, 22 137
- to proteins, 1942, 22 133
- to toxins, 1942, 22 128
- development of inflammation, 1938, 18 368
- drugs, 1947, 27 455
- gradient, 1947, 27 450
- in shock, factors responsible, 1942, 22 91
- intercellular cement, 1947, 27 436
- mechanism, in inflammation, 1938, 18 371
- nervous control, 1947, 27 455
- significance of vasomotion, 1947, 27 454
- theoretical considerations, 1942, 22 138
- vasomotion and fluid exchange, 1947, 27 446

CAPILLARY RESPIROMETER

- development of by Tobias and Gerard, 1943, 23 66

CAPON

- comb-growth response to androgens, 1937, 17 156

CAPROIC ACID

- growth response of plant-like flagellates, 1941, 21 3

CARBARSONE

- antagonism to p-aminobenzoic acid, 1947, 27 312

CARBOHYDRATE

- added to adequate diets, 1951, 31 451
- amino acid metabolism, 1951, 31 471
- balance, blood sugar level and rate of utilization, 1941, 21 179
- caries, 1945, 25 464
- chemotaxis due to, 1946, 26 329
- digestion and absorption of protein, 1951, 31 471
- gastric absorption, 1948, 28 437
- intestinal absorption, 1948, 28 112
- nitrogen balance, 1951, 31 456
- permeability of skin, 1946, 26 527
- plant growth, 1938, 18 536
- protein deposition and loss, 1951, 31 473
- protein sparing effect, 1951, 31 449
- utilization, 1938, 18 274

CARBOHYDRATE DIET

- high, diabetes, 1949, 29 56
- low, oxidation of ingested glucose, 1938, 18 250

CARBOHYDRATE DIET, HIGH

- goiter, 1950, 30 520

CARBOHYDRATE FREE DIET

- growth, 1951, 31 463

CARBOHYDRATE, LOW, FAT, HIGH DIET

- oxidation of ingested glucose, 1938, 18 253

CARBOHYDRATE METABOLISM

- adrenal cortex, 1944, 24 100
- alternate pathways, 1950, 30 492
- amino acids, 1946, 26 150
- anterior pituitary, 1938, 18 1, 1938, 18 281
- as dynamic balance, 1941, 21 140
- chloroform poisoning, 1939, 19 462
- emergency mechanisms for regulation, 1941, 21 170

- epinephrine, 1951, 31 162, 1951, 31 166
glycogen formation, 1938, 18 275
hypophysectomy, 1938, 18 12
hyperthyroidism, vitamin A, 1943, 23 358
 vitamin C, 1943, 23 370
in mammary gland, 1944, 24 360
in parasitic helminths, 1949, 29 198
in stress, adrenal cortex, 1950, 30 285
integration with fat, 1945, 25 420
ions, 1951, 31 292
isotopic studies, 1940, 20 233
mode of action of insulin, 1941, 21 180
nutritional factors, 1946, 26 140
of brain, 1939, 19 154
 inhibition, 1939, 19 155
of fetus and placenta, 1941, 21 446
of skin, 1946, 26 496
of tumors, 1937, 17 103
phosphorus poisoning, 1939, 19 463
phosphorylation, 1948, 28 289
potassium, 1940, 20 396
products formed during glycolysis, 1939, 19 228
protein sparing action of intermediates, 1951, 31 475
role of pancreas, 1941, 21 162
sympathomimetic amines, 1946, 26 177
toxemia, 1939, 19 448
tricarboxylic acid cycle, 1946, 26 225
undernutrition, 1938, 18 248
unknown factors in regulation, 1941, 21 168
utilization in intact animals, 1941, 21 174
- CARBON**
isotopic, metabolic pathways, 1950, 30 495
nutrition, of protozoa, 1941, 21 2
phagocytosis, in lung, 1941, 21 120
radioactive, intermediary metabolism, 1946, 26 120
sources for insects, 1941, 21 12
- CARBON DIOXIDE**
acetylcholine metabolism, 1945, 25 631
antiepileptic, 1948, 28 423
body temperature and action, 1946, 26 266
brain blood flow, 1936, 16 558
carotid, aortic bodies, 1940, 20 124
cerebral circulation, 1936, 16 572
dissociation curve in frog muscle, 1936, 16 473
etiologic factor in response to high oxygen, 1945
 25 120
exchange between mother and fetus, 1936, 16 118
exercise, 1944, 24 319
fixation, 1946, 26 198
 biological function, 1951, 31 99
 initial reactions, 1946, 26 199
gastric absorption, 1948, 28 443
glycogenesis, 1946, 26 135, 1946, 26 139
high oxygen tension, 1945, 25 28
hydration, 1938, 18 505
in diving mammals, 1939, 19 125
industrial health hazard, 1942, 22 174
loss in wound healing, 1936, 16 363
mechanism of fixation, 1946, 26 208
metabolism in microorganisms, 1946, 26 122
 in plants, 1946, 26 120
 multiple pathways, 1950, 30 499
of human and canine prostatic fluids, 1945, 25 285
permeability of C N S capillaries, 1942, 22 134
poisoning, high oxygen tension, 1945, 25 112
response to compressed air, 1945, 25 65
tricarboxylic acid cycle, 1946, 26 132, 1946, 26 198
- CARBON DIOXIDE TENSION**
alveolar, metabolic rate ratio in exercise, 1950, 30
 234
 ventilation ratio, 1950, 30 236
arterial, metabolic rate ratio in exercise, 1950, 30 234
 multiple embolism of lung, 1950, 30 478
hemoglobin production, 1942, 22 377
of blood, respiratory movements, 1947, 27 10
respiratory movements, respiratory center, 1947, 27
 12
- CARBON MONOXIDE**
anoxemia, 1940, 20 313, 1940, 20 324
acclimatization, 1940, 20 333
chemical changes in blood, 1940, 20 330
infection, 1940, 20 326
metabolism, 1940, 20 329
reproduction, 1940, 20 332
respiration, 1940, 20 330
sex glands, 1940, 20 332
blood saturation due to breathing of, 1940, 20 316
blood volume measured with, 1944, 24 493
brain respiration, 1939, 19 148
mode of action, 1940, 20 319
poisoning, anoxia due to, 1941, 21 312
 hemoglobin, 1951, 31 353
 symptoms, in man, 1940, 20 321
- CARBONATE**
detection in cells, 1941, 21 243
of bone, 1937, 17 121
of muscle and plasma, 1936, 16 455
- CARBONIC ACID**
transport in maternal and fetal blood, 1936, 16 126
- CARBONIC ANHYDRASE**
distribution, 1946, 26 560
 in lower animals, 1946, 26 561
fate, 1946, 26 561
formation of egg shells, 1946, 26 570
function in gastric mucosa, 1946, 26 564
 in kidney, 1946, 26 569
 in nervous system, 1946, 26 567
 in pancreas, 1946, 26 567
in mammalian embryos or newborn, 1949, 29 383
inhibition, 1946, 26 563
measurement, 1949, 29 381
metallic ions, 1950, 30 416
of tissues, 1946, 26 560
origin, 1946, 26 561
precursors, 1946, 26 561
zinc, 1949, 29 370, 1949, 29 381
- CARBOXYLASES**
discussion, 1951, 31 60
metallic ions, 1950, 30 416
- CARBOXYLIC ACIDS**
aromatic, as industrial health hazards, 1942, 22 182
detoxication, 1939, 19 331
di, ci, as catalysts, 1941, 21 272
 industrial health hazards, 1942, 22 174

- CARBOXYLIC ACIDS**
 mono-, industrial health hazards, 1942, 22 174
- CARBOXYPEPTIDASE**
 metallic ions, 1950, 30 412
- CARBOXYPOLYPEPTIDASE**
 autolytic enzyme, 1938, 18 190
- CARCINOGENESIS**
 aniline dyes, 1937, 17 93
 arsenic, 1937, 17 92
 chemical agents, 1944, 24 178
 diet, 1944, 24 189
 extrinsic factors in, 1944, 24 177
 factors influencing, 1937, 17 99
 fats, oils, 1944, 24 179
 high fat diet, 1944, 24 190
 hydrocarbons, 1937, 17 93
 irritants, 1944, 24 182
 mechanism, 1937, 17 98
 proteins, amino acids, 1944, 24 194
 radioactive substances, 1937, 17 93
 virus, 1937, 17 96
 vitamins, 1944, 24 195
- CARCINOGENS**
 additive effect, 1944, 24 187
 vitamin A distribution in liver, 1944, 24 212
- CARCINUS** *see* ARTHROPODA
- CARDIAC OUTPUT**
 arterial blood pressure and heart failure, 1938, 18 99
 auricular pressure, 1950, 30 20
 fetal, lung circuit and ductus arteriosus, 1944, 24 284
 in shock, 1942, 22 87
 multiple embolism of lung, 1950, 30 480
- CARDIAZOLE** *see* METRAZOL
- CARDIOLIPIN**
 characterization, 1946, 26 310
 definition, 1946, 26 276
- CARDIO-REGULATORY CENTER**
 resistance to anoxia, 1950, 30 378
- CARDIOVASCULAR SYSTEM**
 ions, 1951, 31 298
- CARNITINE**
 intestinal secretion, 1941, 21 55
- CARNOSINE**
 intestinal secretion, 1941, 21 55
 metallic ions and hydrolysis, 1950, 30 413
 of muscle and plasma, 1936, 16 455
- CAROTENE**
 metabolism, thyroid function, 1943, 23 359, 1943, 23 361
 of serum, clinical significance of changes, 1940, 20 15
 of white, enriched white, and whole wheat flours, 1944, 24 272
- CAROTID BODY**
 anatomical and embryological considerations, 1940, 20 115
 anoxemia, 1940, 20 119
 carbon dioxide, 1940, 20 124
 chemoreceptor activity, explanation, 1940, 20 149
 circulation, 1940, 20 144
 cyanides, 1940, 20 124
 function, 1940, 20 115
 hydrogen ion concentration, 1940, 20 134
 nature of response, 1940, 20 118
 stimulus, 1940, 20 118
 pharmacology, 1940, 20 147
 physiological properties, 1940, 20 118
 reflexes from, respiration, 1944, 24 326
 sulfides, 1940, 20 124
- CAROTID SINUS**
 anatomy of receptors, 1947, 27 11
 brain blood flow, 1936, 16 564
 denervation, experimental hypertension, 1940, 20 161
 mechanism, as indication of autonomic balance, 1943, 23 18
- CARREL THEORY**
 wound healing, 1936, 16 389
- CARROTS**
 extract, as substitute for insulin, 1949, 29 81
- CARTESIAN DIVER**
 diagram, 1943, 23 58
 for microrespiration, 1943, 23 57
- CARTILAGE**
 articular, 1950, 30 154
 growth, 1950, 30 154
 metabolic changes, 1950, 30 155
 physical properties, 1950, 30 155
 growth and repair, 1940, 20 277
 metabolism, 1940, 20 277
 of joints, 1940, 20 276
 reaction to injury, 1940, 20 278
 silica of, 1938, 18 334
 tissue culture, 1937, 17 602
- CASSIOPEA** *see* COELENTERATA
- CAT**
 acetylcholine, basal ganglia, 1946, 26 371
 in brain, 1946, 26 371
 in nervous tissue, 1945, 25 627
 in sympathetic ganglia, 1946, 26 371
 alloxan diabetes, 1948, 28 306
 anaphylaxis, 1941, 21 580
 anesthetic dose, 1939, 19 496
 brain, oxygen consumption, 1936, 16 577
 Q_o, with p-phenylenediamine, 1939, 19 149
 in nervous system, 1945, 25 629
 cholinesterase, cervical sympathetic ganglion, 1946, 26 369
 distribution, 1951, 31 338
 in sciatic nerve, 1946, 26 369
 in sympathetic fibers, 1946, 26 369
 endurance of forced submersion, 1939, 19 116
 experimental exophthalmos, 1949, 29 261
 fetal arterial pressure, 1936, 16 108
 glutamic acid in brain, 1950, 30 550
 gonads, adrenalectomy, 1945, 25 216
 hemolysis of erythrocytes from, 1936, 16 38
 insulin of pancreas, 1944, 24 412
 location of respiratory center, 1946, 26 611
 metabolic rate per day, 1947, 27 529
 number of fibers in optic nerve, 1942, 22 207
 sex differences in adrenal glands, 1945, 25 205
 uterus, ergonovine, 1938, 18 315
 velocity of nerve conduction, 1946, 26 340
 vision, 1937, 17 247

- x ray studies on gastric motility and morphine, 1937, 17 621
- CATALASE**
chromoprotein synthesis, 1951, 31 411
metallic ions, 1950, 30 405
nature, 1939, 19 220
- CATARACT**
calcium, 1937, 17 21
diabetes, 1937, 17 23
glass blowing, 1945, 25 514
metabolism, 1937, 17 1
production by galactose, 1937, 17 19
senile, 1945, 25 515
- CATCHPOLE, H. R. AND GERSH, I.** Decompression sickness, 1947, 27 360
- CATECHOL-O-QUINONE**
catalyst in intermediary metabolism, 1941, 21 300
- CATFISH**
epitheliomas, 1949, 29 98
- CATHEPSIN**
autolytic enzyme, 1938, 18 190
- CATHEPTIC ENZYMES**
ascorbic acid, calcium, 1943, 23 94
proteinases, reversible inactivation, 1937, 17 455
- CATIONS**
active transport, 1949, 29 133
- CATTLE**
adrenal glands and gonadectomy, 1945, 25 211
anaphylaxis, 1941, 21 580
anesthetic dose, 1939, 19 496
ascorbic acid of lens, 1937, 17 15
calf, metabolic rate per day, 1947, 27 529
silica of tissues, 1938, 18 334
composition of synovial fluid and serum, 1940, 20 284
cow, essential fatty acid requirement, 1943, 23 262
insensible loss of water, 1942, 22 15
metabolic rate per day, 1947, 27 529
fluoride intoxication, 1940, 20 593
heifers, metabolic rate per day, 1947, 27 529
hemoglobin, myoglobin, and cytochrome c, 1951, 31 351
insulin of pancreas, 1944, 24 412
17-ketosteroids of urine, 1950, 30 367
ovulation, 1947, 27 108
oxygen consumption of tissues and cytochrome c, 1951, 31 418
selenium poisoning, 1943, 23 311
serum calcium and sex hormones, 1943, 23 159
skeletal development and sex hormones, 1943, 23 146
steer, insensible loss of water in, 1942, 22 15
lipids in skin, 1946, 26 499
urinary androgens, 1937, 17 165
- CAUDATE NUCLEUS**
cholinesterase in, 1946, 26 369
- CAULIFLOWER**
goiter, 1950, 30 527
- CECUM**
anatomy, 1941, 21 58
silica of, 1938, 18 334
- CELIAC DISEASE**
folic acid, 1948, 28 91
- CELLS**
absorption of virus on, 1951, 31 132
age, chemical constituents, 1943, 23 81
basophilic inclusions, 1946, 26 8
general considerations, 1946, 26 8
calcium and boundary structure, 1943, 23 76
change due to radiation, 1944, 24 229
chemical interrelations, 1946, 26 18
differentiation and tissue culture, 1937, 17 589
division, auxins, 1938, 18 533
fibers, ultrastructure, 1939, 19 289
histochemistry, 1941, 21 242
incorporation of labeled amino acids, 1950, 30 213
interrelations of calcium and ascorbic acid, 1943, 23 76
lipoidal material, 1946, 26 9
localization of nucleoproteins, 1946, 26 4
loss of function due to radiation, 1944, 24 230
mechanism of agglutination in thrombosis, 1938, 18 205
membrane, chemical nature, 1943, 23 83
ultrastructure, 1939, 19 295
nuclei, chromosomes and ultraviolet radiation, 1950, 30 446
organic phosphates, 1941, 21 412
oxidation systems, 1939, 19 184
permeability, ascorbic acid, calcium and, 1943, 23 92
requirements for calorigenic action of epinephrine, 1951, 31 160
sensitivity to heat, ultraviolet radiation, 1950, 30 442
sodium, 1949, 29 137
surface, interrelations of calcium and ascorbic acid at, 1943, 23 76
transport, ions across membrane, 1949, 29 127
ultrastructure determination, 1939, 19 272
ultrastructure of protoplasm, 1939, 19 270
ultraviolet injured, photoreactivation, 1950, 30 448
walls, ascorbic acid, 1943, 23 79
chemical nature, 1943, 23 83
- CENTRAL NERVOUS SYSTEM**
acetylcholine, 1945, 25 596, 1945, 25 612
anoxia, 1939, 19 135
arthropod, excitation and conduction, 1946, 26 459
carbon monoxide anoxemia, 1940, 20 324
changes associated with sickle cell anemia, 1944, 24 456
circulatory failure, 1938, 18 94
curare, 1947, 27 469
decompression sickness, 1947, 27 373
eserine, prostigmine, 1945, 25 602
increased oxidation, high oxygen tension, 1945, 25 135
lead, 1938, 18 572
motion sickness, 1949, 29 329
neurosecretion, 1945, 25 171
pathological effects of altitude, 1947, 27 375
permeability of capillaries to antibodies, 1942, 22 132
to drugs, 1942, 22 134
to dyes, 1942, 22 126
to proteins, 1942, 22 133
to toxins, 1942, 22 128

CENTRAL NERVOUS SYSTEM

- reaction to high oxygen pressure, 1945, 25 119
- respiration, 1939, 19 135
- scorpion venom, 1945, 25 151
- subacute mountain sickness, 1943, 23 170
- veratrum alkaloids, 1946, 26 395
- vitamin E deficiency, 1943, 23 43

CEPHALIN

- definition, 1946, 26 275
- metabolism, 1946, 26 290

CEPHALOPODA

- cephalic dominance, 1946, 26 362

CEREALS

- calcium metabolism, 1944, 24 266
- iron metabolism, 1944, 24 268

CEREBELLUM

- cortex, ascorbic acid in, 1939, 19 178
- eserine, 1945, 25 607
- silica of, 1938, 18 334

CEREBRAL BLOOD FLOW

- anoxia, 1939, 19 135
- function, 1936, 16 580, 1936, 16 584
- vasomotor phenomena, 1936, 16 558

CEREBRAL HEMISPHERES, CORTEX

- acetylcholine, 1945, 25 598
- areas distinguishable, 1944, 24 400
- ascorbic acid in, 1939, 19 178
- cholinesterase in, 1946, 26 369
- connections, inter hemispherical, 1944, 24 404
 - inter-regional, 1944, 24 403
 - intracortical, 1944, 24 403
- cytochrome c and oxygen consumption, 1951, 31 417
- eserine, 1945, 25 606
- evipan, 1939, 19 172
- injury, maternal behavior, 1939, 19 315
 - rate of learning, 1939, 19 314
- organization, central region, 1944, 24 398
 - frontal region, 1944, 24 402
 - functional, 1944, 24 390
 - general, 1944, 24 390
 - limbic regions, 1944, 24 402
 - occipital region, 1944, 24 396
 - orbito-temporal region, 1944, 24 403
 - parieto-temporal region, 1944, 24 402
 - sylvian region, 1944, 24 401
- oxygen consumption, of slices, 1939, 19 143
- regions of, 1944, 24 395
- resistance to anoxia, 1950, 30 378
- silica of, 1938, 18 334
- thalamic projections to, 1944, 24 394

CEREBRATULUS

- velocity of conduction in ganglionic cords, 1946, 26 339

CEREBROSIDASE

- reversible inactivation, 1937, 17 466

CEREBROSIDES

- chemistry, 1946, 26 287
- definition, 1946, 26 276
- determination, 1946, 26 310
- fatty acids, 1946, 26 278

CEREBROSPINAL FLUID

- iodine in, 1940, 20 352
- pressure in right sided heart failure, 1938, 18 101

CHADWICK, L E *see* DETHIER, V G

CHAIKOFF, I L Phospholipid metabolism, 1942, 22 291

CHALONES

- definition, 1950, 30 33

CHAMBERS R and ZWEIFACH, B W Intercellular cement and capillary permeability, 1947, 27 436

CHAMBERS, W H Undernutrition and carbohydrate metabolism, 1938, 18 248

CHANG, M C and PINCUS, G Physiology of fertilization in mammals, 1951, 31 1

CHARACEAE

- ion uptake, 1949, 29 151

CHASTEK PARALYSIS

- in nursing fox pups, 1949, 29 391
- pathology, 1949, 29 390
- therapy, 1949, 29 391
- thiamin deficiency, 1948, 28 113
- thiaminase, 1949, 29 389

CHEILOSI

- riboflavin deficiency, 1945, 25 447

CHEMICAL EQUILIBRIA

- as measurement of pH, 1947, 27 231
- biological problems, 1938, 18 495

CHEMICAL STRUCTURE

- curariform activity, 1936, 16 534
- similarity, biological inhibition, 1947, 27 309

CHEMO-AUTOTROPHISM *see* BACTERIA, chemo-autotrophic

CHEMOCORTICIDS

- of blood, adrenocortical hormone secretion, 1950, 30 260
- of urine, adrenocortical secretion, 1950, 30 254

CHEMORECEPTION

- insects, 1948, 28 220
- contact, 1948, 28 234
- methods of investigation, 1948, 28 236

CHEMORECEPTORS

- carotid, aortic body, 1940, 20 116
- regulation of respiratory movements by, 1947, 27 1

CHEMOTAXIS

- advantages, 1946, 26 334
- definition, 1946, 26 319
- due to bacteria, mechanism, 1946, 26 327
- emigration of leukocytes, 1946, 26 331
- field, 1946, 26 323
- in leukocytes, 1946, 26 319
- interfering conditions, 1946, 26 330
- mechanism, 1946, 26 332
- methods, capillary tube, 1946, 26 319
- micro-injection, 1946, 26 320
- slide-coverslip, 1946, 26 320
- tissue culture, 1946, 26 322
- negative, bacterial products, 1946, 26 326
- substances producing, 1946, 26 329
- organisms showing, 1946, 26 319
- phagocytosis, 1946, 26 333
- rate of locomotion, 1946, 26 323

- substances which excite, 1946, 26 325
time relations, 1946, 26 323
- CHICK**
anesthetic dose, 1939, 19 497
embryo, sex development and androgens, 1937, 17 238
heart, fundamental regions, 1949, 29 34
muscle cholinesterase, 1946, 26 369
- CHICKEN**
alloxan diabetes, 1948, 28 306
blood production, 1942, 22 378
cholinesterase activity of nervous system, 1945, 25 629
comb, local action of estrogens, 1948, 28 38
essential fatty acid requirement, 1943, 23 262
fluoride intoxication, 1940, 20 594
formation of egg, 1938, 18 481
insulin of pancreas, 1944, 24 412
nutrition, activity of pteroylglutamic acid, 1948, 28 60
folic acid, 1948, 28 57
selenium poisoning, 1943, 23 314
sex hormones and skeletal structure, 1943, 23 143
- CHILDREN**
ascorbic acid in brain, 1939, 19 178
nicotinic acid deficiency, 1940, 20 256
nucleated cell counts in sternal marrow, 1944, 24 54
- CHIMPANZEE**
anesthetic dose, 1939, 19 496
insulin of pancreas, 1944, 24 413
metabolic rate per day, 1947, 27 529
- CHINCHONIN**
in avian malaria, 1942, 22 193
- CHINICIN**
in avian malaria, 1942, 22 193
- CHINPROPYRLIN**
in avian malaria, 1942, 22 193
- CHITENIN COMPOUNDS**
in avian malaria, 1942, 22 193
- CHLORAL HYDRATE**
industrial health hazard, 1942, 22 176
inhibition of brain metabolism, 1939, 19 173
permeability of collodion membranes to, 1936, 16 57
urinary coproporphyrins, 1947, 27 497
- CHLORETONE**
brain metabolism, 1939, 19 170
- CHLORIDE SPACE**
of muscle, 1936, 16 457
- CHLORIDES**
adrenal insufficiency, 1951, 31 288
clinical significance of changes, 1940, 20 27
dehydration, 1951, 31 291
detection in cells, 1941, 21 243
disease, 1951, 31 285
normal distribution, 1951, 31 286
of blood, after death, 1944, 24 77, 1944, 24 80
after death by drowning, 1944, 24 75
after death from causes other than drowning, 1944, 24 74
after drowning, 1944, 24 78, 1944, 24 81
of human and canine prostatic fluids, 1945, 25 285
of muscle and plasma, 1936, 16 455
of muscle, denervation, 1939, 19 17
of synovial fluid and serum, 1940, 20 284
postmortem, of pleural, pericardial, and peritoneal blood, 1944, 24 83
transport, in animal cells, 1949, 29 147
- CHLORACETANILIDES**
industrial health hazards, 1942, 22 184
- CHLORACETONE**
industrial health hazards, 1942, 22 176
- CHLOROFORM POISONING**
carbohydrate metabolism, 1939, 19 462
- CHLOROQUANIDE** *see* PROGUANIL
- CHLOROMETHANES**
industrial health hazards, 1942, 22 175
- CHLOROMETHYL-CHLORO-FORMATE**
industrial health hazards, 1942, 22 177
- CHLORO-NAPHTHALENES**
industrial health hazards, 1942, 22 187
- CHLORO-NITROBENZENE**
industrial health hazard, 1942, 22 185
- CHLORO-NITROMETHANE**
industrial health hazards, 1942, 22 177
- CHLORO-NITROPROPANE**
industrial health hazard, 1942, 22 177
- N¹ P CHLOROPHENYL, N⁴ ISO-PROPYL BIGUANIDE** *see* PROGUANIL
- CHLOROPHYLL**
protein in leaf, 1945, 25 362
- CHLOROPICRINE**
industrial health hazard, 1942, 22 177
- CHLORORAPHIN**
oxidation reduction potentials, 1939, 19 197
- CHOLECYSTOKININ**
assay, 1950, 30 59
definition, 1950, 30 58
physiological actions, 1950, 30 60
preparation and property, 1950, 30 59
site of formation, 1950, 30 59
- CHLOROFORM ANESTHESIA**
cardiac irregularity, 1941, 21 327
circulatory collapse, 1941, 21 329
heart, 1941, 21 324
- CHOLESTEROL**
alternate metabolic pathways, 1950, 30 506
biological origin of androgens, 1937, 17 191
ester, transport of fatty acids, 1939, 19 569
excretion, 1946, 26 297
formation, acetic acid, 1947, 27 600
of adrenal cortex, rate of hormone secretion, 1950, 30 247
of aorta, in atherosclerosis, 1943, 23 187, 1943, 23 189
of blood, clinical significance of changes, 1940, 20 14
of human and canine prostatic fluids, 1945, 25 285
xanthomatosis, 1946, 26 296
- CHOLINE COMPOUNDS**
anaphylaxis, 1941, 21 575
antagonistic structural analogs, 1947, 27 312
arseno-, lipotropic action, 1944, 24 152
biological synthesis, 1944, 24 140
butter, yellow, hepatic tumors, 1944, 24 150

CHOLINE COMPOUNDS

- calcium phosphoryl, 1944, 24 152
- characteristics, glycerylphosphoryl, 1946, 26 310
- compounds, lipotropic action, 1944, 24 152
- deficiency, tissue changes, 1942, 22 270
 - vitamin A in liver, 1944, 24 211
- distribution, 1944, 24 153
- extraction procedure for microbiological assay, 1948, 28 271
- fat in diet, 1945, 25 672
- homo-, 1944, 24 151, 1944, 24 152
- hydrolysis by cholinesterases, benzoyl, butyryl, 1951, 31 314
- lipotropic factor, 1944, 24 128
- α methyl, β -phenyl-, 1944, 24 152
- β -methyl-, 1944, 24 152
 - ethyl ether, 1944, 24 152
- mode of action, 1944, 24 142
- of semen, 1951, 31 44
- parasympathetic nervous system, 1937, 17 390
- phospho-, 1944, 24 152
- phosphoryl, of semen, 1951, 31 44
- renal degeneration, 1944, 24 145
- site of action, 1937, 17 392
- synthesis of acetylcholine, 1945, 25 619
- vitamin, 1944, 24 151

CHOLINE COMPOUNDS *see also* ACETYLCHOLINE

CHOLINESTERASES

- acyl group size and rate of hydrolysis of aliphatic ester, 1951, 31 315
 - rate of hydrolysis of choline esters, 1951, 31 315
- combination with substrate, 1951, 31 325
- configuration of alcoholic group and hydrolysis of aliphatic esters, 1951, 31 316
- dispersion forces, 1951, 31 326
- distribution in mammalian tissues, 1951, 31 325
- enzyme-substrate forces, 1951, 31 320
- esteratic site, 1951, 31 323
- horse plasma, specificity, 1951, 31 314
- human erythrocyte, specificity, 1951, 31 314
- identity of active groups, 1951, 31 324
- in vitro mode of action, 1951, 31 320
- inhibition of, acetylcholine, 1945, 25 604
- ionic binding forces, 1951, 31 321
- specificity, 1951, 31 312
- true and pseudo, 1951, 31 319

CHONDROITIN SULFATE

- inhibition of hyaluronidase, 1947, 27 344

CHORDA TYMPANI

- barbiturates, 1939, 19 477

CHORIONIC GONADOTROPIN

- toxemia of pregnancy, 1948, 28 5

CHROMATES

- industrial hazard, 1945, 25 194

CHROMODORIS ZEBRA PIGMENT

- oxidation-reduction potentials, 1939, 19 197

CHROMOPROTEINS

- bile pigment, 1951, 31 392
- biosynthesis of porphyrins, 1951, 31 401
- body metabolism, 1951, 31 416
- body size, 1951, 31 416
- cellular localization, 1951, 31 385

- concentration, 1951, 31 352
- fetal and adult, 1951, 31 413
- formation of metalloporphyrins, 1951, 31 400
- formation, conjugated, 1951, 31 393
- hemim, metabolism, 1951, 31 345
- importance to body as a whole, 1951, 31 422
- metabolism, anabolic aspects, 1951, 31 399
 - labelling experiments, 1951, 31 403
- porphyrins, 1951, 31 398
- production, protein nutrition, 1951, 31 390
- synthesis, 1951, 31 411
- total quantities, 1951, 31 350

CHROMOPROTEINURIAS

- description, 1951, 31 386

CHRONAXIE

- as index of speed, 1936, 16 431
- effect, 1936, 16 412
- excitation formulae, 1936, 16 410
- physiological time, 1936, 16 408
- smooth muscle, 1944, 24 474

CHRYSODIN

- permeability of C.N.S. capillaries to, 1942, 22 128

CHYMOTROPSIN

- formation from chymo-trypsinogen, 1937, 17 147
- reversible heat inactivation, 1937, 17 147

CIONA

- self-sterility in, 1948, 28 213

CIRCULATION

- acclimatization, 1947, 27 219
- adequacy for heat exchange, 1947, 27 214
- adjustment in diving mammals, 1939, 19 124
- arrest, survival of brain, 1950, 30 375
- barbiturates, 1939, 19 473
- chemoreceptor reflexes, 1940, 20 144
- ergonovine, 1938, 18 316
- fetal, 1936, 16 109
 - anatomical basis, 1944, 24 280
 - basic plan, 1944, 24 279
 - birth, 1944, 24 277
 - dynamic factors, 1944, 24 282
 - variations, 1944, 24 283
- heat, 1947, 27 212
- high oxygen tension, 1945, 25 95
- in subacute mountain sickness, 1943, 23 168
- instability in heat, 1947, 27 213
- oxygen tension, 1945, 25 13
- peripheral, regulation of respiration, 1947, 27 24
- reactions in anaphylactic rabbit, 1941, 21 577
- skin, insensible loss of water, 1942, 22 8
- snake venom, 1945, 25 158
- veratrum alkaloids, 1946, 26 392, 1946, 26 408

CIRCULATORY FAILURE

- arterial and venous pressure factors, 1938, 18 86
- chloroform anesthesia, 1941, 21 329
- peripheral, 1938, 18 87
 - neurogenic, 1938, 18 90
 - vasogenic, 1938, 18 91

CIRRHOSIS *see* LIVER, dietary cirrhosis

CITRATE

- fixation of carbon dioxide, 1946, 26 216
- in semen, 1951, 31 39
- intermediary metabolite, 1941, 21 280

- of human and canine prostatic fluids, 1945, 25 285
 oxidation in brain, 1939, 19 166
- CITRIC ACID CYCLE**
 carbohydrate oxidation, 1946, 26 225
 cycle, 1941, 21 267
 dicarboxylic acids, 1941, 21 274
 fixation of carbon dioxide, 1946, 26 221
 glycogenesis, 1946, 26 228
 intermediary metabolism, 1941, 21 281
 oxidation of fatty acids, 1946, 26 232
 passage of tracer carbon through, 1950, 30 495
 role of CO_2 , 1946, 26 132
- CLAM**
 intensity discrimination in, 1937, 17 256
- CLARK, E. R.** Arterio-venous anastomoses, 1938, 18 229
- CLOSTRIDIUM**
 butyricum, pteroylglutamic acid in, 1948, 28 63
 tetani, activity of pteroylglutamic acid and related compounds, 1948, 28 62
 welchii lecithinase of, 1946, 26 292
- CLOTHING**
 insensible loss of water, 1942, 22 7
 restricted evaporation of sweat, 1936, 16 277
- CO_2 FIXATION** *see* WOOD-WERKMAN REACTION
- COAGULANTS**
 calcium, 1936, 16 652
- COAGULATING GLAND**
 in prostate gland, 1945, 25 291
- COBALT**
 activation of arginase, 1950, 30 397
 metabolism, in infants, 1939, 19 432
 role in blood formation, 1940, 20 54
- COBB, S. and COLE, E. M.** Stuttering, 1939, 19 49
- COBRA VENOM**
 permeability of C.N.S. capillaries to, 1942, 22 130
- COCAINE**
 body temperature and action, 1946, 26 267
- COCARBOXYLASE**
 acetylcholine synthesis, 1945, 25 622
 antagonistic structural analogs, 1947, 27 312
 chemistry and mode of action, 1939, 19 370
 determination, 1939, 19 369
 nomenclature and history, 1939, 19 367
 occurrence, 1939, 19 368
 preparation, 1939, 19 368
- COCHLEA**
 electrical response, and hearing, 1938, 18 60
 nervous connections, 1938, 18 64
 origin of electric response, 1938, 18 62
- COCKROACH**
 velocity of nerve conduction, 1946, 26 340
- COCK'S COMB**
 ergonovine, 1938, 18 317
- COD LIVER OIL**
 alleged toxicity, 1937, 17 360
 destruction of vitamin E, 1943, 23 38
- CODEHYDRASE** *see* DIPHOSPHOPYRIDINE NUCLEOTIDE
- COENZYME 2** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- COELENTERATA**
 acetylcholine of tissues, 1946, 26 372
 cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
 nutritional requirements, 1941, 21 25
 velocity of conduction in nerve nets, 1946, 26 339
 venoms of, physiological action, 1945, 25 148
- COENZYME 1** *see* DIPHOSPHOPYRIDINE NUCLEOTIDE
- COENZYME 2** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- COENZYMES**
 description, 1939, 19 353
 mode of action, 1939, 19 377
- COFERMENT** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- COLCHICINE**
 body temperature and activity, 1946, 26 249
- COLD**
 acute tissue damage, 1949, 29 156
 applied, carcinogenic action, 1944, 24 185
 growth of leukemic cells, 1946, 26 69
 prolonged exposure, reactions, 1949, 29 157
 response to, adrenal cortex, 1944, 24 109
 transient responses, 1949, 29 156
- COLE, E. M.** *see* COBB, S.
- COLEOPTERA**
 nutritional requirements, 1941, 21 16
- COLLAGEN**
 production in scurvy, 1942, 22 242
- COLLAGEN DISEASES**
 therapy with cortisone and ACTH, 1950, 30 307
- COLON**
 anatomy, 1941, 21 58
 motility, anoxia, 1941, 21 313
- COLONIC EXCRETION**
 of substances, 1941, 21 63
- COLONIC SECRETION**
 characteristics, due to nervous secretion, 1941, 21 61
 composition, 1941, 21 58
 control, 1941, 21 59
 function, 1941, 21 63
 histological changes associated, 1941, 21 62
 nervous system, 1941, 21 59
- COLOR CHANGE**
 hormonal control, in invertebrates, 1941, 21 389
- COMPLEMENT**
 amboceptor, hemolysis, 1936, 16 41
 colloidal silicic acid system and hemolysis, 1936, 16 44
- COMPRESSED AIR**
 analysis of complicating variables, 1945, 25 52
 carbon dioxide in, response, 1945, 25 65
 increased pressure per se, and pathology, 1945, 25 52
 neuromuscular reactions, 1945, 25 58
 nitrogen in, response, 1945, 25 63
 oxygen tension, 1945, 25 60
 subjective responses, 1945, 25 58
- COMROE, J. H., JR.** The hyperpnea of muscular exercise, 1944, 24 319
- *see* SCHMIDT, C. F.
- CONCUSSION**
 acceleration, 1945, 25 301
 blast, 1945, 25 315
 compression, 1945, 25 303
 experimental studies, 1945, 25 298

CONCUSSION

- histological changes in brain, 1945, 25 310
- in man, 1945, 25 297
- mechanism of injury, 1945, 25 312
- persistent effects, 1945, 25 310
- physiological effects, 1945, 25 296
- physiological mechanism of response, 1945, 25 305

CONES *see* RETINA, cones

CONGO RED

- permeability of C N S capillaries to, 1942, 22 128

CONN, J W Etiological aspects, II (Obesity), 1944, 24 31

CONRAD, R M and SCOTT, H M Formation of egg of domestic fowl, 1938, 18 481

CONSTIPATION

- morphine, 1937, 17 641

CONVECTION

- heat exchange, 1947, 27 203

CONVULSIONS

- adrenocortical hormones, 1949, 29 299
- chemical, anticonvulsants, 1948, 28 413
- chronic focal, anticonvulsant drugs, 1948, 28 414
- control, by barbiturates, 1939, 19 485
- electrical, 1948, 28 409
 - anticonvulsants, 1948, 28 413
- epileptic, diurnal variation, 1949, 29 14
- high oxygen tension, 1945, 25 78
- mechanisms, 1948, 28 409

COOL

- definition of cutaneous sense, 1946, 26 79
- neural mechanisms, 1946, 26 78

COORDINATION REFLEX

- chronaxie, 1936, 16 423

COPPER

- achromotrichia, 1948, 28 374
- blood formation, 1940, 20 48, 1940, 20 52
- detection in cells, 1941, 21 245
- enzymatic reaction, 1950, 30 408
- form in tissues, 1940, 20 51
- metabolism, in infants, 1939, 19 432
 - of fetus and placenta, 1941, 21 452
- normal pigmentation, 1950, 30 1
- of blood, 1940, 20 51
- of white, enriched white, and whole wheat flours, 1944, 24 272
- storage in tissues, 1940, 20 50
- tyrosinase, 1950, 30 101

COPROPORPHYRIN

- origin and significance, 1947, 27 500
- scheme of formation, 1947, 27 501
- structural formula, 1947, 27 479
- urinary, 1940, 20 434, 1947, 27 478
 - blood diseases, 1947, 27 485
 - chemicals, metals, 1947, 27 494
 - gastrointestinal hemorrhage, 1947, 27 486
 - liver disease, jaundice, 1947, 27 482
- I, physical constants, 1940, 20 425
- III, physical constants, 1940, 20 425

COPROPORPHYRINURIA

- idiopathic, 1947, 27 489

CORAMINE

- action, body temperature, 1946, 26 25*
- in poikilotherms and homeotherms, 1946, 26 255

CORIUM *see* DERMA

CORN

- nicotinic acid of, 1940, 20 264

CORNER, G W Sites of formation of estrogenic substances, 1938, 18 154

CORONARY BLOOD FLOW

- adenosine, 1936, 16 299
- arterial and venous collaterals, 1946, 26 35
- determinants, 1946, 26 34
- drugs, 1946, 26 42
- experimental measure, 1946, 26 30
- flow patterns, 1946, 26 41
- luminal vessels, 1946, 26 38
- mean rate, 1946, 26 30
- measurement with cut coronary vessel, 1946, 26 30
 - with intact coronary vessel, 1946, 26 32
- nervous influences, 1946, 26 42
- outflow, distribution, 1946, 26 36
- phasic changes in rate, 1946, 26 31
- with various heart preparations, 1946, 26 33

CORONARY CIRCULATION

- anatomy, 1946, 26 28
- crossing of streams of blood, 1936, 16 109
- experimental approach, 1946, 26 30
- in fetus, 1944, 24 281
- response to augmented load, 1946, 26 39

CORPUS LUTEUM

- ascorbic acid in, 1936, 16 447
- estrogenic hormone from, 1938, 18 165
- progesterin from, 1938, 18 425
- uterine motility, 1937, 17 320

CORTICOIDS

- of blood, adrenocortical hormone secretion, 1950, 30 259

CORTICOSTERONE

- capillary permeability, 1947, 27 456

CORTICOTROPIN *see* ADRENOCORTICOTROPIC HORMONE

CORTILACTIN

- adrenocortical hormone, 1944, 24 113

CORTIN

- ascorbic acid utilization, 1936, 16 446
- capillary permeability, 1947, 27 456

CORTISONE

- electrolyte metabolism, 1951, 31 288
- therapy of collagen diseases, 1950, 30 307

COUGHING

- intraventricular injection of acetylcholine, 1945, 25 600

COWGILL, G R Relative nutritive value of fats, 1945 25 664

COWPER'S GLAND

- androgens, 1937, 17 198
- secretory function, 1951, 31 27

COVAL GLANDS

- excretion of water, 1938, 18 38

COZYMASE *see* DIPHOSPHOPYRIDINE NUCLEOTIDE

CREATINE CREATININE EXCRETION

- androgens, 1937, 17 215

- CREATINE**
metabolism, 1940, 20 241
of muscle, and plasma, 1936, 16 455
denervation, 1939, 19 20
in vitamin E deficiency, 1943, 23 40
- CREATININE**
clinical significance of changes, 1940, 20 9
formation, 1946, 26 130
metabolism, 1940, 20 241
urinary, ascorbic acid, 1943, 23 370
- CREOSOTE**
carcinogenesis, 1944, 24 183
- CROCETIN DIMETHYL ESTERS**
antagonistic structural analogs, 1947, 27 312
antagonism trans- and cis-, 1947, 27 312
- CROSSED EXTENSOR REFLEX**
mediation in spinal cord, 1944, 24 5
- CROTON OIL**
carcinogenesis, 1944, 24 182
- CRUICKSHANK, E W H** Cardiac metabolism, 1936, 16 597
- CRUSH SYNDROME**
chromoproteinuria, 1951, 31 388
- CRUSTACEA**
endocrine control of pigmentation, 1941, 21 389
locomotion, 1946, 26 359
neuromuscular system, 1946, 26 461
velocity of conduction in ganglionic cords, 1946, 26 339
- CRYSTALLIN**
 α - and β - amino acids of, 1937, 17 4
- CTENOPHORA**
cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
- CUPREIN**
in avian malaria, 1942, 22 193
- CURARE**
abnormal muscle tone, 1947, 27 470
antagonism of calcium, 1947, 27 468
arthropod nervous system, 1946, 26 467
classical studies, 1947, 27 464
contraindications to use, 1947, 27 473
pharmacological antagonists, 1947, 27 467
physiological effects, 1947, 27 464
use in clinical medicine, 1947, 27 472
- CURARIFORM ACTIVITY**
chemical structure, 1936, 16 534
measurement, 1936, 16 531
onium salts, 1936, 16 527
theories, 1936, 16 541
- CUSHING'S SYNDROME**
obesity due to, 1944, 24 37
pathology, 1950, 30 303
- CUTANEOUS APPENDAGES**
histology, 1946, 26 508
- CUTANEOUS SENSE**
activity of nerve endings, 1946, 26 90
central projection, 1946, 26 86
neural mechanisms, 1946, 26 77
- CYANIDE**
brain respiration, 1939, 19 147
permeability of C.N.S. capillaries, 1942, 22 134
synthesis of acetylcholine, 1945, 25 619
- CYCLOHEXANE DERIVATIVES**
detoxication, 1939, 19 339
- CYCLOPARAFFINS**
industrial health hazards, 1942, 22 171
- CYCLOPROPANE**
pharmacology, 1938, 18 462
- CYCLOPROPANE ANESTHESIA**
cardiac irregularities, 1941, 21 346
epinephrine, 1941, 21 350
heart rate, 1941, 21 345
irritability of heart tissue, 1941, 21 349
strength of contraction of heart muscle, 1941, 21 345
- CYSTEINE**
insulin synthesis, 1949, 29 61
source, in detoxication, 1939, 19 340
- CYSTINE**
biological synthesis, 1946, 26 150
demonstration of essentiality, 1938, 18 112
fatty livers, 1944, 24 138
in lactogenic hormone, 1946, 26 581
microbiological assay, 1949, 29 247
plasma protein formation, 1940, 20 203
- CYTIDYLIC ACID**
heart, 1936, 16 296
ultraviolet radiation, 1950, 30 447
- CYTOCHROME**
definition, 1939, 19 187
of denervated muscle, 1939, 19 24
oxidation reduction potentials, 1939, 19 193
- CYTOCHROME B**
localization in cells, 1941, 21 249
system, oxidation reduction potentials, 1939, 19 193
- CYTOCHROME C**
carbon monoxide, 1951, 31 353
hormones, 1951, 31 420
localization in cells, 1941, 21 249
metabolism, 1951, 31 350, 1951, 31 411
metallic ions, 1950, 30 404
oxygen consumption, 1951, 31 417
protein nutrition, 1951, 31 391
structural formula, 1939, 19 189
system, oxidation reduction potentials, 1939, 19 193
thyroxin, 1951, 31 216
- CYTOCHROME OXIDASE**
inactivation of sympathomimetic amines, 1946, 26 182
localization in cells, 1941, 21 249
metabolism, 1951, 31 350
metallic ions, 1950, 30 406
of brain, 1939, 19 148
thiopyrin, 1951, 31 216
- CYTOPLASM**
ascorbic acid, 1943, 23 79
mitochondria, 1941, 21 255
radiation injury, 1944, 24 230
- CYTOSIDEROSIS**
iron, 1951, 31 369
- CYTOSINE**
blood pressure, 1936, 16 298
ultraviolet radiation, 1950, 30 447

- DANFORTH, C H** Physiology of human hair, 1939, 19 94
- DANN, W J and DARBY, W J** Appraisal of nutritional status in humans, 1945, 25 326
- DARBY, W J** *see* **DANN, W J**
- DARK ADAPTATION**
rods, cones, 1937, 17 248
- DARROW, C W** Autonomic function and autonomic balance, 1943, 23 1
- DAVENPORT, H W** Carbonic anhydrase in tissues other than blood, 1946, 26 360
- DAVIS, H and FORBES, A** Chronaxie, 1936, 16 407
- DEATH**
by drowning, determination, 1944, 24 70
- DECARBOXYLATION**
biological mechanisms, 1951, 31 56
enzymatic, kinetics, 1951, 31 57
mechanism, 1951, 31 79
oxidative, 1951, 31 67
- DECEREBRATE RIGIDITY**
reticular formation, 1950, 30 462
- DECOMPRESSION SICKNESS**
composition of gas bubbles, 1947, 27 365
critical pressure differences, 1947, 27 363
decompression from high pressure, 1947, 27 364
to altitude, 1947, 27 364
gas uptake and elimination, 1947, 27 365
pathology, 1947, 27 360, 1947, 27 373
physical considerations, 1947, 27 361
rate of decompression, 1947, 27 364
- DECYLIC ACID**
growth response of plant-like flagellates, 1941, 21 3
- DEFECATION**
intraventricular injection of acetylcholine, 1945, 25 600
- DEFICIENCY DISEASE**
chronic, 1945, 25 338
definition, 1945, 25 327
departure from normal morphology, 1945, 25 335
development, 1945, 25 327
latent, 1945, 25 331
manifest, 1945, 25 332
potential, 1945, 25 331
- DEHYDRASE**
in cellular respiration, 1939, 19 218
- DEHYDRATION**
antidiuretic hormone, 1945, 25 586
antiepileptic therapy, 1948, 28 423
bacteriophage, 1936, 16 135
ionic alteration in, 1951, 31 291
- DEHYDROGENASE**
in cellular respiration, 1939, 19 218
inhibition by selenium, 1943, 23 326
- DEHYDROISOANDROSTERONE**
formulae and physiological activity, 1937, 17 185
isolated from human urine, 1950, 30 324
preparation from urine, 1937, 17 166
- DEMPSEY, E W and WISLOCKI, G B** Histochemical contributions to physiology, 1946, 26 1
- DENVY-BROWN, D** Cerebral concussion, 1945, 25 296
- DENTAL CARIES**
acid foods, 1945, 25 465
alkalosis, acidosis, 1945, 25 465
bacteriology, 1939, 19 395
calcium, 1945, 25 462
changes in saliva, 1939, 19 397
diet, 1939, 19 401, 1945, 25 468
etiological factors, 1939, 19 389
fluorides, 1945, 25 464
general discussion, 1939, 19 389
physical character of food, 1945, 25 466
vitamin A deficiency, 1945, 25 445
vitamin C deficiency, 1945, 25 455
vitamin D deficiency, 1945, 25 458
- DENTIN**
fluorosis, 1945, 25 464
mineral deficiency, 1945, 25 460
vitamin A deficiency, 1945, 25 443
vitamin C deficiency, 1945, 25 450
vitamin D deficiency, 1945, 25 456
- DEPANCREATIZED ANIMALS**
fatty liver in, lipocac, 1944, 24 155
gluconeogenesis from protein, 1941, 21 143
- DEPRESSION, AGITATED**
17 ketosteroids, 1950, 30 364
- DERMA**
histology, 1946, 26 507
melanoma, 1949, 29 97
tumors, in fish, 1949, 29 99
- DERMATITIS**
niacin deficiency, 1945, 25 448
riboflavin deficiency, 1942, 22 263
- DESENSIN**
uterine motility, 1937, 17 324
- DESOXYCORTICOSTERONE**
androgenic activity, 1945, 25 237
deficiency of 11,17-oxysteroids induced by, 1950, 30 307
electrolyte metabolism, 1951, 31 289
essential hypertension, 1950, 30 304
estrogenic activity, 1945, 25 238
progestational activity, 1945, 25 238
significance in water metabolism, 1949, 29 304
toxicity, 1950, 30 300
- DESOXYPYRIDOXINE**
antagonism to pyridoxine, 1947, 27 313
- DESOXYRIBONUCLEIC ACID**
ultraviolet radiation, 1950, 30 446
- DESTHOBIOTIN**
analog of biotin, 1945, 25 709
antagonism to biotin, 1947, 27 312
- DETHIER, V G and CHADWICK, L E** Chemoreception in insects, 1948, 28 220
- DETOXICATION**
ascorbic acid, calcium, 1943, 23 93
requirement for nutritional essentials, 1948, 28 122
of carbocyclic compounds, 1939, 19 323
site, 1939, 19 343
- DEUEL, H. J., Jr** Intermediate metabolism of fructose and galactose, 1936, 16 173
- DEUTERIUM**
preparation of compounds, 1940, 20 223

DEUTEROPORPHYRIN IX *see* PORPHYRINS

DFP

- formula and trivial name, 1951, 31 328
- resistance to anoxia, 1950, 30 379

DIABETES INSIPIDUS

- adrenal cortex, 1944, 24 99
- anterior pituitary, posterior pituitary, 1949, 29 292
- conditioned stimulation of C.N.S., 1945, 25 583
- emotion, 1945, 25 581
- exercise, 1945, 25 581
- hypnotic suggestion, 1945, 25 583
- pituitary gland, 1940, 20 500
- posterior pituitary gland, 1945, 25 578
- water balance, 1944, 24 510

DIABETES MELLITUS

- abnormal insulin sensitivity, 1949, 29 51
- acetoacetic acid, 1949, 29 60
- adrenocortical, description, 1949, 29 50
- cardiac metabolism, 1936, 16 617
- cataract, 1937, 17 23
- destruction or exhaustion of beta cells, 1949, 29 54
- development, acetoacetic acid, 1949, 29 69
- control, 1949, 29 54
- diet, 1949, 29 59
- in rat, 1949, 29 57
- progression, 1949, 29 48
- diet, 1949, 29 55
- dietary fat, 1937, 17 364
- experimental, insulin of pancreas, 1944, 24 434
- gluconeogenesis, 1941, 21 142
- glutathione, 1949, 29 65
- human, insulin of pancreas, 1944, 24 435, 1949, 29 53
- pancreas, 1949, 29 52
- insulin administration, 1949, 29 75
- ketone body utilization, 1945, 25 416
- ketosis, 1941, 21 150
- 17 ketosteroids, 1950, 30 346
- liver, description, 1949, 29 51
- muscle, description, 1949, 29 51
- of pancreas, 1948, 28 313
- pancreatectomy, after hypophysectomy, 1938, 18 5
- description, 1949, 29 49
- phlorhizin, 1945, 25 255
- insulin of pancreas, 1944, 24 434
- pituitary, description, 1949, 29 50
- primary endocrine imbalance, 1949, 29 55
- thyroid, description, 1949, 29 51
- toxemia of pregnancy, 1948, 28 3
- toxic substances in ascorbic acid deficiency, 1949, 29 70
- utilization of hexoses, 1936, 16 203
- various types, 1949, 29 48
- vitamin C deficiency, 1949, 29 60
- zinc, 1949, 29 378

DIABETES, ALLOXAN

- complications, 1948, 28 312
- course, 1948, 28 305
- diet and other factors, 1948, 28 308
- duration and constancy, 1948, 28 309
- glutathione, 1949, 29 64

- history, 1948, 28 304
- in intermediary metabolism, 1949, 29 68
- in man, 1948, 28 317
- in various species, 1948, 28 306
- insulin of pancreas, 1944, 24 435
- kidneys, 1948, 28 315
- nature, 1948, 28 305
- pathology, 1948, 28 316
- protection from, 1948, 28 321
- severity, 1948, 28 309

DIABETOGENIC HORMONE

- hypothalamus, 1948, 28 166

DIAL

- anesthetic dose in various species, 1939, 19 496

DIALURIC ACID

- diabetogenic action, 1948, 28 323

DIAMINOPHOSPHATIDES *see* SPHINGOMYELINS

DIAMINOTOLUENE

- 2,4-, industrial health hazard, 1942, 22 184

DIAPHRAGM

- cholinesterase in, 1951, 31 337
- silica of, 1938, 18 334

DIBENZANTHRACENES

- porphyrins, 1940, 20 458
- S/L ratio, (pro-estrogens), 1948, 28 26

DIBROM-METHYL-ETHYLKETONE

- industrial health hazard, 1942, 22 176

DICARBOXYLIC ACIDS *see* CARBOXYLIC ACIDS

DICHLORETHANE

- industrial health hazard, 1942, 22 176

DICHLORETHYLENE

- industrial health hazard, 1942, 22 176

DICHLORETHYL ETHER

- industrial health hazard, 1942, 22 177

DICHORO-BENZENES

- industrial health hazards, 1942, 22 183

DICHOROHYDRINE

- industrial health hazard, 1942, 22 176

DICHLOMETHYL-CHLORO-FORMATE

- industrial health hazard, 1942, 22 177

DICHLORONAPHTHOQUINONE

- antagonism to vitamin K, 1947, 27 314

DICHORO-9-RIBITYL-ISOALLANIZINE

- 6,7-, riboflavin analog, 1945, 25 707

DICHORO-RIBOFLAVIN

- 6,7-, antagonism to riboflavin, 1947, 27 313

DICHOROISM *see* DOUBLE ABSORPTION

DICUMAROL

- action, 1944, 24 305
- antagonism to vitamin K, 1945, 25 710, 1947, 27 314
- anticoagulant in vivo, 1944, 24 297, 1944, 24 304
- body temperature and action, 1946, 26 266
- capillary fragility, 1944, 24 310
- chemistry, 1944, 24 305
- factors influencing action, 1944, 24 309
- prevention of thrombosis, 1944, 24 310
- prothrombin level, 1944, 24 306
- vitamin K, 1944, 24 308

DIENCEPHALON

- effector mechanisms, for sexual behavior, 1947, 27 255

- DANFORTH, C H** Physiology of human hair, 1939, 19 94
- DANN, W J and DARBY, W J** Appraisal of nutritional status in humans, 1945, 25 326
- DARBY, W J** *see* **DANN, W J**
- DARK ADAPTATION**
rods, cones, 1937, 17 248
- DARROW, C W** Autonomic function and autonomic balance, 1943, 23 1
- DAVENPORT, H W** Carbonic anhydrase in tissues other than blood, 1946, 26 560
- DAVIS, H and FORBES, A** Chronaxie, 1936, 16 407
- DEATH**
by drowning, determination, 1944, 24 70
- DECARBOXYLATION**
biological mechanisms, 1951, 31 56
enzymatic, kinetics, 1951, 31 57
mechanism, 1951, 31 79
oxidative, 1951, 31 67
- DECEREBRATE RIGIDITY**
reticular formation, 1950, 30 462
- DECOMPRESSION SICKNESS**
composition of gas bubbles, 1947, 27 365
critical pressure differences, 1947, 27 363
decompression from high pressure, 1947, 27 364
to altitude, 1947, 27 364
gas uptake and elimination, 1947, 27 365
pathology, 1947, 27 360, 1947, 27 373
physical considerations, 1947, 27 361
rate of decompression, 1947, 27 364
- DECYLIC ACID**
growth response of plant-like flagellates, 1941, 21 3
- DEFECATION**
intraventricular injection of acetylcholine, 1945, 25 600
- DEFICIENCY DISEASE**
chronic, 1945, 25 338
definition, 1945, 25 327
departure from normal morphology, 1945, 25 335
development, 1945, 25 327
latent, 1945, 25 331
manifest, 1945, 25 332
potential, 1945, 25 331
- DEHYDRASE**
in cellular respiration, 1939, 19 218
- DEHYDRATION**
antidiuretic hormone, 1945, 25 586
antiepileptic therapy, 1948, 28 423
bacteriophage, 1936, 16 135
ionic alteration in, 1951, 31 291
- DEHYDROGENASE**
in cellular respiration, 1939, 19 218
inhibition by selenium, 1943, 23 326
- DEHYDROISOANDROSTERONE**
formulae and physiological activity, 1937, 17 185
isolated from human urine, 1950, 30 324
preparation from urine, 1937, 17 166
- DEMPSEY, E W and WISLOCKI, G B** Histochemical contributions to physiology, 1946, 26 1
- DENNY BROWN, D** Cerebral concussion, 1945, 25 296
- DENTAL CARIES**
acid foods, 1945, 25 465
alkalosis, acidosis, 1945, 25 465
bacteriology, 1939, 19 395
calcium, 1945, 25 462
changes in saliva, 1939, 19 397
diet, 1939, 19 401, 1945, 25 468
etiologic factors, 1939, 19 389
fluorides, 1945, 25 464
general discussion, 1939, 19 389
physical character of food, 1945, 25 466
vitamin A deficiency, 1945, 25 445
vitamin C deficiency, 1945, 25 455
vitamin D deficiency, 1945, 25 458
- DENTIN**
fluorosis, 1945, 25 464
mineral deficiency, 1945, 25 460
vitamin A deficiency, 1945, 25 443
vitamin C deficiency, 1945, 25 450
vitamin D deficiency, 1945, 25 456
- DEPANCREATIZED ANIMALS**
fatty liver in, lipocais, 1944, 24 155
gluconeogenesis from protein, 1941, 21 143
- DEPRESSION, AGITATED**
17 ketosteroids, 1950, 30 364
- DERMA**
histology, 1946, 26 507
melanoma, 1949, 29 97
tumors, in fish, 1949, 29 99
- DERMATITIS**
niacin deficiency, 1945, 25 448
riboflavin deficiency, 1942, 22 263
- DESENSIN**
uterine motility, 1937, 17 324
- DESOXYCORTICOSTERONE**
androgenic activity, 1945, 25 237
deficiency of 11, 17-oxysteroids induced by, 1950, 30 307
electrolyte metabolism, 1951, 31 289
essential hypertension, 1950, 30 304
estrogenic activity, 1945, 25 238
progestational activity, 1945, 25 238
significance in water metabolism, 1949, 29 304
toxicity, 1950, 30 300
- DESOXYPYRIDOXINE**
antagonism to pyridoxine, 1947, 27 313
- DESOXYRIBONUCLEIC ACID**
ultraviolet radiation, 1950, 30 446
- DESTHOBIOTIN**
analog of biotin, 1945, 25 709
antagonism to biotin, 1947, 27 312
- DETHIER, V G and CHADWICK, L E** Chemoreception in insects, 1948, 28 220
- DETOXICATION**
ascorbic acid, calcium, 1943, 23 93
requirement for nutritional essentials, 1948, 28 122
of carbocyclic compounds, 1939, 19 323
site, 1939, 19 343
- DEUEL, H. J., Jr** Intermediate metabolism of fructose and galactose, 1936, 16 173
- DEUTERIUM**
preparation of compounds, 1940, 20 223

DEUTEROPORPHYRIN IX *see* PORPHYRINS

DFP

formula and trivial name, 1951, 31 328

resistance to anoxia, 1950, 30 379

DIABETES INSIPIDUS

adrenal cortex, 1944, 24 99

anterior pituitary, posterior pituitary, 1949, 29 292

conditioned stimulation of C.N.S., 1945, 25 583

emotion, 1945, 25 581

exercise, 1945, 25 581

hypnotic suggestion, 1945, 25 583

pituitary gland, 1940, 20 500

posterior pituitary gland, 1945, 25 578

water balance, 1944, 24 510

DIABETES MELLITUS

abnormal insulin sensitivity, 1949, 29 51

acetoacetic acid, 1949, 29 60

adrenocortical, description, 1949, 29 50

cardiac metabolism, 1936, 16 617

cataract, 1937, 17 23

destruction or exhaustion of beta cells, 1949, 29 54

development, acetoacetic acid, 1949, 29 69

control, 1949, 29 54

diet, 1949, 29 59

in rat, 1949, 29 57

progression, 1949 29 48

diet, 1949, 29 55

dietary fat, 1937, 17 364

experimental, insulin of pancreas, 1944, 24 434

gluconeogenesis, 1941, 21 142

glutathione, 1949 29 65

human, insulin of pancreas, 1944, 24 435, 1949, 29 53

pancreas, 1949, 29 52

insulin administration, 1949, 29 75

ketone body utilization, 1945, 25 416

ketosis, 1941, 21 150

17-ketosteroids, 1950, 30 346

liver, description, 1949, 29 51

muscle, description, 1949, 29 51

of pancreas, 1948, 28 313

pancreatectomy, after hypophysectomy, 1938, 18 5

description, 1949, 29 49

phlorhizin, 1945, 25 255

insulin of pancreas, 1944, 24 434

pituitary, description, 1949, 29 50

primary endocrine imbalance, 1949, 29 55

thyroid, description, 1949, 29 51

toxemia of pregnancy, 1948, 28 3

toxic substances in ascorbic acid deficiency, 1949, 29 70

utilization of hexoses, 1936, 16 203

various types, 1949, 29 48

vitamin C deficiency, 1949, 29 60

zinc, 1949, 29 378

DIABETES, ALLOXAN

complications, 1948, 28 312

course, 1948, 28 305

diet and other factors, 1948, 28 308

duration and constancy, 1948, 28 309

glutathione, 1949, 29 64

history, 1948, 28 304

in intermediary metabolism, 1949, 29 68

in man, 1948, 28 317

in various species, 1948, 28 306

insulin of pancreas, 1944, 24 435

kidneys, 1948, 28 315

nature, 1948, 28 305

pathology, 1948, 28 316

protection from, 1948, 28 321

seventy, 1948, 28 309

DIABETOGENIC HORMONE

hypothalamus, 1948, 28 166

DIAL

anesthetic dose in various species, 1939, 19 496

DIALURIC ACID

diabetogenic action, 1948, 28 323

DIAMINOPHOSPHATIDES *see* SPHINGOMYELINS

DIAMINOTOLUENE

2,4-, industrial health hazard, 1942, 22 184

DIAPHRAGM

cholinesterase in, 1951, 31 337

silica of, 1938, 18 334

DIBENZANTHRACENES

porphyrins, 1940, 20 458

S/L ratio, (pro-estrogens), 1948, 28 26

DIBROM-METHYL-ETHYLKETONE

industrial health hazard, 1942, 22 176

DICARBOXYLIC ACIDS *see* CARBOXYLIC ACIDS

DICHLORETHANE

industrial health hazard, 1942, 22 176

DICHLORETHYLENE

industrial health hazard, 1942, 22 176

DICHLORETHYL ETHER

industrial health hazard, 1942, 22 177

DICHORO-BENZENES

industrial health hazards, 1942, 22 183

DICHOROHYDRINE

industrial health hazard, 1942, 22 176

DICHLOROMETHYL-CHLORO-FORMATE

industrial health hazard, 1942, 22 177

DICHLORO-APHTHOQUINONE

antagonism to vitamin K, 1947, 27 314

DICHORO-9-RIBITYL-ISOALLANIZINE

6,7-, riboflavin analog, 1945, 25 707

DICHORO-RIBOFLAVIN

6,7-, antagonism to riboflavin, 1947, 27 313

DICHOROISM *see* DOUBLE ABSORPTION

DICUMAROL

action, 1944, 24 305

antagonism to vitamin K, 1945, 25 710, 1947, 27 314

anticoagulant in vivo, 1944, 24 297, 1944, 24 304

body temperature and action, 1946, 26 266

capillary fragility, 1944, 24 310

chemistry, 1944, 24 305

factors influencing action, 1944, 24 309

prevention of thrombosis, 1944, 24 310

prothrombin level, 1944, 24 306

vitamin K, 1944, 24 308

DIENCEPHALON

effector mechanisms, for sexual behavior, 1947, 27

255

- ANFORTH, C H Physiology of human hair, 1939, 19 94
- IN, W J and DARBY, W J Appraisal of nutritional status in humans, 1945, 25 326
- BY, W J *see* DANN, W J
- ADAPTATION
- ids, cones, 1937, 17 248
- ROW, C W Autonomic function and autonomic balance, 1943, 23 1
- ENPORT, H W Carbonic anhydrase in tissues other than blood, 1946, 26 560
- IS, H and FORBES, A. Chronaxie, 1936, 16 407
- ATH
- y drowning, determination, 1944, 24 70
- CARBOXYLATION
- ological mechanisms, 1951, 31 56
- zymatic, kinetics, 1951, 31 57
- echanism, 1951, 31 79
- ndative, 1951, 31 67
- EREBRATE RIGIDITY
- icular formation, 1950, 30 462
- OMPRESSION SICKNESS
- imposition of gas bubbles, 1947, 27 365
- ritual pressure differences, 1947, 27 363
- ompression from high pressure, 1947, 27 364
- to altitude, 1947, 27 364
- is uptake and elimination, 1947, 27 365
- ithology, 1947, 27 360, 1947, 27 373
- ysical considerations, 1947, 27 361
- te of decompression, 1947, 27 364
- YLIC ACID
- rowth response of plant like flagellates, 1941, 21 3
- ECATION
- traventricular injection of acetylcholine, 1945, 25 600
- ICIENCY DISEASE
- ronic, 1945, 25 338
- nfinition, 1945, 25 327
- parture from normal morphology, 1945, 25 335
- velopment, 1945, 25 327
- tent, 1945, 25 331
- anifest, 1945, 25 332
- ntential, 1945, 25 331
- YDRASE
- cellular respiration, 1939, 19 218
- YDRATION
- idiuretic hormone, 1945, 25 586
- ti epileptic therapy, 1948, 28 423
- ctenophage, 1936, 16 135
- nic alteration in, 1951, 31 291
- YDROGENASE
- cellular respiration, 1939, 19 218
- hibition by selenium, 1943, 23 326
- YDROISOANDROSTERONE
- rmulae and physiological activity, 1937, 17 185
- lated from human urine, 1950, 30 324
- eparation from urine, 1937, 17 166
- IPSEY, E W and WISLOCKI, G B Histochemical contributions to physiology, 1946, 26 1
- RYN BROWN, D Cerebral concussion, 1945, 25 296
- DENTAL CARIES
- acid foods, 1945, 25 465
- alkalosis, acidosis, 1945, 25 465
- bacteriology, 1939, 19 395
- calcium, 1945, 25 462
- changes in saliva, 1939, 19 397
- diet, 1939, 19 401, 1945, 25 468
- etiological factors, 1939, 19 389
- fluorides, 1945, 25 464
- general discussion, 1939, 19 389
- physical character of food, 1945, 25 466
- vitamin A deficiency, 1945, 25 445
- vitamin C deficiency, 1945, 25 455
- vitamin D deficiency, 1945, 25 458
- DENTIN
- fluorosis, 1945, 25 464
- mineral deficiency, 1945, 25 460
- vitamin A deficiency, 1945, 25 443
- vitamin C deficiency, 1945, 25 450
- vitamin D deficiency, 1945, 25 456
- DEPANCREATIZED ANIMALS
- fatty liver in, lipocae, 1944, 24 155
- gluconeogenesis from protein, 1941, 21 143
- DEPRESSION, AGITATED
- 17-ketosteroids, 1950, 30 364
- DERMA
- histology, 1946, 26 507
- melanoma, 1949, 29 97
- tumors, in fish, 1949, 29 99
- DERMATITIS
- niacin deficiency, 1945, 25 448
- riboflavin deficiency, 1942, 22 263
- DESENSIN
- uterine motility, 1937, 17 324
- DESOXYCORTICOSTERONE
- androgenic activity, 1945, 25 237
- deficiency of 11,17-oxysteroids induced by, 1950, 30 307
- electrolyte metabolism, 1951, 31 289
- essential hypertension, 1950, 30 304
- estrogenic activity, 1945, 25 238
- progestational activity, 1945, 25 238
- significance in water metabolism, 1949, 29 304
- toxicity, 1950, 30 300
- DESOXYPYRIDOXINE
- antagonism to pyridoxine, 1947, 27 313
- DESOXYRIBONUCLEIC ACID
- ultraviolet radiation, 1950, 30 446
- DESTHIOBIOTIN
- analog of biotin, 1945, 25 709
- antagonism to biotin, 1947, 27 312
- DETHIER, V G and CHADWICK, L E Chemoreception in insects, 1948, 28 220
- DETOXICATION
- ascorbic acid, calcium, 1943, 23 93
- requirement for nutritional essentials, 1948, 28 122
- of carbocyclic compounds, 1939, 19 323
- site, 1939, 19 343
- DEUEL, H. J., Jr Intermediate metabolism of fructose and galactose, 1936, 16 173
- DEUTERIUM
- preparation of compounds, 1940, 20 223

DEUTEROPORPHYRIN IX *see* PORPHYRINS

DFP

- formula and trivial name, 1951, 31 328
- resistance to anoxia, 1950, 30 379

DIABETES INSIPIDUS

- adrenal cortex, 1944, 24 99
- anterior pituitary, posterior pituitary, 1949, 29 292
- conditioned stimulation of C N S, 1945, 25 583
- emotion, 1945, 25 581
- exercise, 1945, 25 581
- hypnotic suggestion, 1945, 25 583
- pituitary gland, 1940, 20 500
- posterior pituitary gland, 1945, 25 578
- water balance, 1944, 24 510

DIABETES MELLITUS

- abnormal insulin sensitivity, 1949, 29 51
- acetoacetic acid, 1949, 29 60
- adrenocortical, description, 1949, 29 50
- cardiac metabolism, 1936, 16 617
- cataract, 1937, 17 23
- destruction or exhaustion of beta cells, 1949, 29 54
- development, acetoacetic acid, 1949, 29 69
- control, 1949, 29 54
- diet, 1949, 29 59
- in rat, 1949, 29 57
- progression, 1949, 29 48
- diet, 1949, 29 55
- dietary fat, 1937, 17 364
- experimental, insulin of pancreas, 1944, 24 434
- gluconeogenesis, 1941, 21 142
- glutathione, 1949, 29 65
- human, insulin of pancreas, 1944, 24 435, 1949, 29 53
- pancreas, 1949, 29 52
- insulin administration, 1949, 29 75
- ketone body utilization, 1945, 25 416
- ketosis, 1941, 21 150
- 17 ketosteroids, 1950, 30 346
- liver, description, 1949, 29 51
- muscle, description, 1949, 29 51
- of pancreas, 1948, 28 313
- pancreatectomy, after hypophysectomy, 1938, 18 5
- description, 1949, 29 49
- phlorhizin, 1945, 25 255
- insulin of pancreas, 1944, 24 434
- pituitary, description, 1949, 29 50
- primary endocrine imbalance, 1949, 29 55
- thyroid, description, 1949, 29 51
- toxemia of pregnancy, 1948, 28 3
- toxic substances in ascorbic acid deficiency, 1949, 29 70
- utilization of hexoses, 1936, 16 203
- various types, 1949, 29 48
- vitamin C deficiency, 1949, 29 60
- zinc, 1949, 29 378

DIABETES, ALLOXAN

- complications, 1948, 28 312
- course, 1948, 28 305
- diet and other factors, 1948, 28 308
- duration and constancy, 1948, 28 309
- glutathione, 1949, 29 64

- history, 1948, 28 304
- in intermediary metabolism, 1949, 29 68
- in man, 1948, 28 317
- in various species, 1948, 28 306
- insulin of pancreas, 1944, 24 435
- kidneys, 1948, 28 315
- nature, 1948, 28 305
- pathology, 1948, 28 316
- protection from, 1948, 28 321
- severity, 1948, 28 309

DIABETOGENIC HORMONE

- hypothalamus, 1948, 28 166

DIAL

- anesthetic dose in various species, 1939, 19 496

DIALURIC ACID

- diabetogenic action, 1948, 28 323

DIAMINOPHOSPHATIDES *see* SPHINGOMYELINS

DIAMINOTOLUENE

- 2,4-, industrial health hazard, 1942, 22 184

DIAPHRAGM

- cholinesterase in, 1951, 31 337
- silica of, 1938, 18 334

DIBENZANTHRACENES

- porphyrins, 1940, 20 458
- S/L ratio, (pro-estrogens), 1948, 28 26

DIBROM-METHYL-ETHYLKETONE

- industrial health hazard, 1942, 22 176

DICARBOXYLIC ACIDS *see* CARBOXYLIC ACIDS

DICHLORETHANE

- industrial health hazard, 1942, 22 176

DICHLORETHYLENE

- industrial health hazard, 1942, 22 176

DICHLORETHYL ETHER

- industrial health hazard, 1942, 22 177

DICHLORO-BENZENES

- industrial health hazards, 1942, 22 183

DICHLOROHYDRINE

- industrial health hazard, 1942, 22 176

DICHLOROMETHYL-CHLORO-FORMATE

- industrial health hazard, 1942, 22 177

DICHLORONAPHTHOQUINONE

- antagonism to vitamin K, 1947, 27 314

DICHORO-9-RIBITYL ISOALLAXILINE

- 6,7-, riboflavin analog, 1945, 25 707

DICHORO-RIBOFLAVIN

- 6,7-, antagonism to riboflavin, 1947, 27 313

DICHOROISM *see* DOUBLE ABSORPTION

DICUMAROL

- action, 1944, 24 305
- antagonism to vitamin K, 1945, 25 710, 1947, 27 314
- anticoagulant in vivo, 1944, 24 297, 1944, 24 304
- body temperature and action, 1946, 26 266
- capillary fragility, 1944, 24 310
- chemistry, 1944, 24 305
- factors influencing action, 1944, 24 309
- prevention of thrombosis, 1944, 24 310
- prothrombin level, 1944, 24 306
- vitamin K, 1944, 24 308

DIENCEPHALON

- effector mechanisms, for sexual behavior, 1947, 27 255

DIET

- assimilation of sugar, 1938, 18 250
- beta cell degeneration, 1949, 29 60
- body composition, 1947, 27 85
- carbohydrate metabolism, 1938, 18 251
- dental caries, 1939, 19 401
- development of diabetes, 1949, 29 55, 1949, 29 59
- duration of exercise, 1942, 22 37
- fat utilization, 1940, 20 577
- glycogenesis, 1938, 18 267
- insulin of pancreas, 1944, 24 417
- leukocyte count, 1943, 23 297
- muscular efficiency, 1942, 22 34
- pH of wounds, 1936, 16 366
- reproduction, in rat, 1947, 27 90
- role of fat, 1937, 17 335
- susceptibility to alloxan, 1949, 29 58
- urea clearance, 1941, 21 531
- vitamin A distribution in liver, 1944, 24 211
- water balance, 1944, 24 516
- see also* FOOD

DIETARY DEFICIENCY

- oral structures, 1945, 25 442

DIETARY STANDARD

- deficiency disease, 1945, 25 332
- definition, 1945, 25 327

DIETHYL ALLOXANTIN

- diabetogenic action, 1948, 28 323

DIETHYL ANILINE

- industrial health hazard, 1942, 22 183

DIETHYLMETHYLHYDROXYETHYLAMMONIUM CHLORIDE

- lipotropic action, 1944, 24 152

DIETHYL *p*-NITROPHENYLPHOSPHATE

- formula and trivial name, 1951, 31 328

DIETHYLSTILBENE *see* STILBENEDIETHYLSTILBESTEROL *see* STILBESTEROL

DIFFERENTIAL COUNT

- errors, distribution of leukocytes, 1943, 23 283
- sternal marrow, 1944, 24 59

DIFFERENTIATION

- heredity, 1941, 21 502

DIFFUSION

- discrimination between and active transport, 1949 29 131

DIGESTION

- morphine, 1937, 17 618, 1937, 17 623

DIGITALIS

- body temperature and action, 1946, 26 254

DIGITAN

- urea clearance, 1941, 21 536

DIURETIC

- urea clearance, 1941, 21 536

DIHYDROANDROSTERONE *see* ANDROSTANEDIOLSDIHYDROANDROSTERONE DIACETATE *see* ANDROSTANEDIOLS

DIHYDROTACHYSTEROL

- calcification, 1940, 20 545

DIHYDROXY DI- α NAPHTHYL ACENAPHTHENE

- S/L ratio, (pro-estrogens), 1948, 28 26

DIHYDROXY γ 8 DIPHENYL- β 8 HEXADIENE

- 4 4-, S/L ratio, 1948, 28 25

DIHYDROXYDIPHENYLS

- S/L ratio, (pro-estrogens), 1948, 28 26

DIHYDROXYHEXAHYDROCHRYSENE

- S/L ratio, (pro-estrogens), 1948, 28 26

DIHYDROXYMALEIC ACID

- as catalyst in intermediary metabolism, 1941, 21 300

DIHYDROXYSTILBENE *see* STILBENE

DIODOTYROSINE

- ethers, antagonism to thyroxine, 1947, 27 314

DILANTIN

- antiepileptic, 1948, 28 419

DILL, D B The economy of muscular exercise, 1936, 16 263

DIMETHYL ANILINE

- industrial health hazard, 1942, 22 183

DIMETHYL ETHER

- as anesthetic gas, 1938, 18 473

3,17-DIMETHYLAETIO-ALLOCHOLANEDIOL-3,17 *see* ANDROSTANEDIOLS

DIMETHYL ALLOXANTIN

- diabetogenic action, 1948, 28 323

3,5 DIMETHYL 5-ETHYL OXAZOLIDINE 2,4-DIONE *see* PARADIONEDIMETHYL *p*-PHENYLENE DIAMINE

- industrial health hazard, 1942, 22 184

5,6-DIMETHYL-9 RIBITYL ISOALLOXAZINE *see* ISORIBOFLAVIN β -DIMETHYLAMINOETHYL BENZHYDRYL ETHER HCl *see* BENADRYLN- β -DIMETHYLAMINOPROPYL THIODIPHENYLAMINE *see* 3277 R PN- β DIMETHYLAMINOETHYL THIODIPHENYLAMINE *see* 3015 R P

DIMETHYLETHYLHYDROXYETHYLAMMONIUM CHLORIDE

- lipotropic action, 1944, 24 152

DIMETHYLPYRUVIC ACID

- in ergot alkaloids, 1938, 18 306

DINITROBENZENES

- industrial health hazards, 1942, 22 185

DINITRO-*o* CRESOL

- inhibition of brain metabolism, 1939, 19 177

DINITROETHYLENE GLYCOL

- industrial health hazard, 1942, 22 177

DINITROPHENOL

- body temperature, 1946, 26 261

DIPALMITOLECITHIN

- isolation, 1946, 26 280

DIPEPTIDASE *see* PEPTIDASES

DIPHENOLS

- industrial health hazards, 1942, 22 181

DIPHENYL ANILINE

- industrial health hazard, 1942, 22 183

5,5 DIPHENYL OXAZOLIDINE 2,4-DIONE *see* LIPIDONDIPHENYLHYDANTOIN *see* DILANTIN

DIPHOSPHOPYRIDINE NUCLEOTIDE

- adenylic acid, 1936, 16 310
- chemistry, 1939, 19 358
- determination, 1939, 19 356
- in nicotinic acid deficiency, 1940, 20 266
- mechanism of action, 1939, 19 361
- occurrence, 1939, 19 355

- preparation, 1939, 19 358
 synonyms, 1939, 19 355
- DIPHATHERIA TOXIN**
 permeability of C.N.S. capillaries to, 1942, 22 129
 nutritional requirements, 1941, 21 18
- DISPERSION COEFFICIENTS**
 of denatured protein, 1936, 16 677
- DITHIOIS**
 as antidotes to arsenic poisoning, 1949, 29 174
 chemistry, 1949, 29 175
- DITHIOL, 2,3-DIMERCAPTOPROPANOL** *see* BAL
- DIURESIS**
 adrenocortical hormones, 1949, 29 301
 osmotic, in newborn, 1948, 28 341
- DIURNAL RHYTHMS**
 establishment and maintenance, 1949, 29 25
 in man, 1949, 29 13
 in various animals, 1949, 29 12
 reversal and modification, 1949, 29 26
- DIVING**
 muscular relaxation, 1939, 19 118
- D N RATIO**
 factors affecting, 1945, 25 265
 fat, 1941, 21 149
 in depancreatized animal, 1941, 21 144
 in phlorrhizized animal, 1941, 21 147, 1945, 25 265
- DOBRYN, K. and RHOADS, C. P.** The porphyrins in health and disease, 1940, 20 416
- DOG**
 acetylcholine of nervous tissue, 1945, 25 627
 acute toxicity of antihistamines, 1947, 27 550
 adrenal glands and gonadectomy, 1945, 25 211
 alloxan diabetes, 1948, 28 306
 anaphylaxis, 1941, 21 566
 anemia, folic acid, 1948, 28 95
 anesthetic dose, 1939, 19 496
 bacteriology of liver, 1951, 31 194
 brain, acetylcholine in, 1946, 26 371
 cerebral blood flow, 1936, 16 580
 changes in adrenals with reproduction, 1945, 25 208
 chemical composition of prostatic fluid, 1945, 25 285
 chloride of blood, 1944, 24 77
 after death by drowning, 1944, 24 79
 cholinesterase, in brain cortex, 1946, 26 369
 in cervical sympathetic ganglion, 1946, 26 369
 in lenticular nucleus, 1946, 26 369
 in nervous system, 1945, 25 629
 in sympathetic fibers, 1946, 26 369
 cross-section area of mesenteric vessels, 1950, 30 7
 digestion, morphine, 1937, 17 623
 endurance of forced submersion, 1939, 19 116
 excretion of chromoprotein, 1951, 31 387
 experimental exophthalmos, 1949, 29 261
 fetal arterial pressure, 1936, 16 108
 folic acid, 1948, 28 77
 glutamic acid in brain, 1950, 30 550
 hemoglobin, myoglobin and cytochrome c, 1951, 31 351
 hemolysis of erythrocytes from, 1936, 16 38
 insensible loss of water, 1942, 22 15
 insulin of pancreas, 1944, 24 412
 ligation of hepatic artery, 1951, 31 188
 metabolic rate per day, 1947, 27 529
 morphine and peristalsis, 1937, 17 629
 nicotinic acid of, 1940, 20 264
 number of fibers in optic nerve, 1942, 22 207
 oxygen capacity of blood, 1939, 19 119
 oxygen consumption of tissues and cytochrome c, 1951, 31 418
 physiological effects of spider venom, 1945, 25 154
 plasma transfusions and nitrogen balance, 1944, 24 373
 pulse rate of fetus, new born and adult, 1936, 16 117
 serum calcium and sex hormones, 1943, 23 159
 sex differences in adrenal glands, 1945, 25 205
 skeletal development and sex hormones, 1943, 23 146
 estrogens, 1943, 23 156
 toxic substances produced by incubation of liver 1951, 31 200
 tubular excretion of phenol red, 1939, 19 83
 tubular reabsorption of glucose, 1939, 19 83
 uterus, ergonovine, 1938, 18 316
 vasculature and circulation in liver, 1942, 22 63
 velocity of nerve conduction, 1946, 26 340
 vision, 1937, 17 247
 volume of mesenteric blood vessels, 1950, 30 10
 zinc in blood, 1949, 29 372
- DOPA**
 melanin formation, 1950, 30 91
 oxidation of tyrosine, 1950, 30 99
- DOPA OXIDASE**
 histochemical studies, 1946, 26 15
- DORFMAN, A.** Pathways of glycolysis, 1943, 23 124
- DOUBLE ABSORPTION**
 of light, determination of ultrastructure of proto-
 plasm, 1939, 19 278
- DRAKE, D. L.** Metabolism of hemin chromoproteins, 1951, 31 345
- DRAGSTEDT, C. A.** Anaphylaxis, 1941, 21 563
- DRAIZE, J. H.** *see* CALVERY, H. O
- DRAMAMINE**
 therapy for motion sickness, 1949, 29 361
- DRILL, V. A.** Thyroid function and vitamin metabolism 1943, 23 355
- DROSOPHILA**
 intensity discrimination, 1937, 17 256
- DROWNING**
 determination of death by, 1944, 24 70
- DRURY, A. N.** Nucleic acid and its derivatives, 1936 16 292
- DUCK**
 alloxan diabetes, 1948, 28 306
 insulin of pancreas, 1944, 24 412
 oxygen capacity of blood, 1939, 19 119
 survival of submersion, 1939, 19 114
- DUCTUS ARTERIOSUS**
 circulation of blood from, 1936, 16 110
 fetal cardiac output, 1944, 24 284
 function in fetus, 1936, 16 114
 functional closure, 1944, 24 289
- DUCTUS VENOSUS**
 functional closure, 1944, 24 293
- DUNN, M. S.** Microbiological assay of amino acids, 1949, 29 219

DUNN, M S, MURPHY, E A and ROCKLAND, L B
Optimal growth of the rat, 1947, 27 72

DUODENUM

definition, 1950, 30 74
mechanism of release, 1950, 30 75
motility and secretory response, 1950, 30 75
preparation and properties, 1950, 30 75

DUODENUM *see* INTESTINE, SMALL, duodenum

DURA MATER

silica of, 1938, 18 334

DUVE, C DE *see* BOUCKAERT, J P

DYES

diffusion into joint spaces, 1940, 20 298
gastric absorption, 1948, 28 443
inhibition of brain metabolism, 1939, 19 177

DYSENTERY TOXIN

permeability of C.N.S. capillaries to, 1942, 22 130

E_{AR}

blood flow, nucleic acids, 1936, 16 300

EARTHWORM

velocity of conduction in ganglionic cords, 1946, 26 339

ECCLES, J C Synaptic and neuro-muscular transmission, 1937, 17 538

ECHINOCHROME

oxidation reduction potentials, 1939, 19 197

ECHINOCOCCUS

immunity to, 1940, 20 476

ECHINODERMS

acetylcholine of tissues, 1946, 26 372
cholinesterase in nervous and neuro-muscular tissues, 1946, 26 370

ECZEMA

unsaturated fatty acids, 1943, 23 262

EDEMA

due to burns, 1945, 25 535
venous pressure, 1950, 30 25

EDKINS' GASTRIN *see* GASTRIN

α EFFECT

electrode size, 1936, 16 412

EGG

formation of shell, 1938, 18 489
membranes, transport of fat across, 1939, 19 569
nicotinic acid of, 1940, 20 264
phospholipid turnover in, 1942, 22 305
shape, 1938, 18 486
vitamin K in, 1941, 21 196
white, avidin in, 1946, 26 481
formation in chicken, 1938, 18 485
yolk, formation, 1938, 18 482

EGG WATER

agglutination of sperm by, 1948, 28 182

CLAIDIC ACID

labeling, 1942, 22 311

ELASMOBRANCHS

blood production, 1942, 22 376

ELECTRIC CONDUCTIVITY

of irradiated protein solutions, 1936, 16 680

ELECTRIC FISH

cholinesterase activity of nervous system, 1945, 25 629

ELECTRIC ORGAN (EELS)

cholinesterase in, 1946, 26 369

ELECTRIC POTENTIALS

during wound healing, 1936, 16 364

ELECTRICAL RESISTANCE

capacitance in plant cells, 1936, 16 231

ELECTRICITY

wound healing, 1936, 16 378

ELECTROCARDIOGRAM

anatomy, physiology of heart, 1947, 27 415
body as conductor of electricity, 1947, 27 414
chloroform anesthesia, 1941, 21 331
embryonic heart, 1949, 29 41
genesis, 1947, 27 398
factors involved, 1947, 27 399
in burned patients, 1945, 25 551
injury, 1947, 27 401
laws governing spread of current in volume conductor, 1947, 27 408
nucleic acids, 1936, 16 305
snake venom, 1945, 25 158
sources of electric current, 1947, 27 405
topography of impulse origin and spread, 1947, 27 405
unipolar leads, 1947, 27 414
vector analysis, 1947, 27 412

ELECTROENCEPHALOGRAM

acetylcholine, 1945, 25 598
acute lesions of brain stem, 1950, 30 470
arousal reaction, 1950, 30 468
brain stem reticular formation, 1950, 30 469
chronic brain stem lesions, 1950, 30 470
concussion, 1945, 25 306
wakefulness and sleep, 1950, 30 467

ELECTROLYTE METABOLISM

in stress, adrenal cortex, 1950, 30 288

ELECTROLYTES

change in muscular activity, 1936, 16 475
dissociation, law of mass action, 1938, 18 497
exchange between inhaled fluid and blood in pulmonary capillaries, 1944, 24 71
excretion, 1941, 21 550
hemolysis, 1936, 16 37, 1936, 16 28
hydropolar, membrane permeability, 1936, 16 72
in renal disease, 1951, 31 296
irradiation of proteins, 1936, 16 674
metabolism, adrenal cortex, 1949, 29 281
of body fluids, of normal infant, 1939, 19 424
of fetus and infant, 1939, 19 422
of muscle, 1936, 16 450
denervation, 1939, 19 17
in vitamin E deficiency, 1943, 23 39
of serum and synovial fluid, 1940, 20 288
permeability of skin, 1946, 26 521
wound healing, 1936, 16 363

ELECTROMOTIVE FORCE

measurement of pH, 1947, 27 232

ELECTRON DIFFRACTION

determination of ultrastructure of protoplasm, 1939, 19 280

ELECTROPHORESIS

analysis of plasma proteins, 1947, 27 625
of serum globulin, 1947, 27 629

- biological and medical applications, 1947, 27 621
 observations and applications, 1947, 27 622
 of viruses, 1948, 28 360
 preparative, 1947, 27 625
 technic, 1947, 27 621
- ELECTROPHORETIC MOBILITY**
 of cell not agglutinated by virus, 1951, 31 139
- ELECTROPHORUS**
 electric organ, cholinesterase, 1946, 26 369
- ELECTROPHYSIOLOGY**
 invertebrate, 1947, 27 643
 laws governing spread of current in volume conductor, 1947, 27 408
- ELECTROSHOCK**
 17-ketosteroids, 1950, 30 364
- ELEPHANT**
 insensible loss of water, 1942, 22 15
 metabolic rate per day, 1947, 27 529
- EMBDEN-MEYERHOF SCHEME**
 as pathway of glycolysis, 1943, 23 125
 in blood, 1941, 21 418
- ELLIOTT, K. A. C.** Intermediary metabolites and, respiratory catalysis, 1941, 21 267
- ELMAN, R.** Nitrogen balance by plasma and proteins, 1944, 24 372
- ELVEHJEM, C. A.** Relation of nicotinic acid to pellagra, 1940, 20 249
- EMBOLISM**
 multiple of lung, 1950, 30 475
- EMBRYO**
 comparative physiology, 1941, 21 438
 first heart contractions, 1949, 29 35
 formation of primary heart regions, 1949, 29 32
 heart beat, 1949, 29 31
 nutrition, 1941, 21 438
 protein anabolism, 1936, 16 8
- EXAMENIN**
 from placenta, 1938, 18 420
- EXOTOXIN**
 antidiuretic hormone, 1948, 28 144
 leukocyte count, 1943, 23 296
- ENAMEL**
 fluorosis, 1945, 25 463
 mineral deficiency, 1945, 25 460
 mottled, fluorides, 1940, 20 586
 vitamin A deficiency, 1945, 25 443
 vitamin C deficiency, 1945, 25 451
 vitamin D deficiency, 1945, 25 456
- ENDOTHELIUM**
 thrombosis, 1938, 18 218
- ENERGY**
 free, change in reaction, 1938, 18 519
 of pyruvate oxidation, 1948, 28 290
 radiant, wound healing, 1936, 16 378
- ENERGY METABOLISM**
 hypothalamic lesions, 1946, 26 548
 of heart, 1936, 16 629
 protein-sparing, 1951, 31 473
- ENERGY-RICH PHOSPHATES**
 of uterus, 1951, 31 261
 sympathomimetic amines, 1946, 26 177
- ENGSTROM, W. W.** *see* MASON, H. L.
- ENOLASE**
 metallic ions, 1950, 30 422
- ENTEROANTHELMONE**
 discussion, 1950, 30 71
- ENTEROCININ**
 definition, 1950, 30 76
 mechanism of release, 1950, 30 76
 preparation and chemical property, 1950, 30 77
- ENTEROGASTRONE**
 assay, 1950, 30 63
 definition, 1950, 30 61
 endogenous compared with exogenous, 1950, 30 65
 physiologic properties, 1950, 30 65
 preparation and properties, 1950, 30 65
 secretory and motor inhibition, 1950, 30 68
 site of formation, 1950, 30 62
 stimuli for release, 1950, 30 62
- ENTEROKINASE**
 duodenal secretions, 1941, 21 38
 in intestinal secretion, 1941, 21 49
- ENVIRONMENT**
 equivalent, 1947, 27 208
 in terms of skin temperature, 1947, 27 209
 operative temperature, 1947, 27 209
 physical instruments for measuring, 1947, 27 210
 obesity, 1944, 24 40
- ENZYMES**
 autolysis by, in wound healing, 1936, 16 367
 autolytic, 1938, 18 184
 activation, 1938, 18 187
 coenzymes, 1939, 19 353
 copper containing, 1950, 30 408
 distribution, micromethods, 1951, 31 432
 sampling methods, 1951, 31 433
 formation, 1937, 17 144
 from inactive precursors, 1937, 17 147
 genetic control, 1941, 21 503
 heavy metals and activity, 1937, 17 456
 histochemical studies, 1946, 26 13
 inactivation by ultraviolet radiation, 1950, 30 438
 lead, 1938, 18 564
 metal ions, 1950, 30 393
 metallo-, metallic specificity, 1950, 30 396
 of decarboxylation, 1951, 31 57
 of fat metabolism, 1945, 25 395
 of gastrointestinal tract, morphine, 1937, 17 637
 of intestinal secretion, 1941, 21 48
 of synovial fluid, 1940, 20 288
 oxidative, histochemical studies, 1946, 26 13
 oxygen tension, 1945, 25 23, 1945, 25 101, 1945, 25 130
 proteolytic, metallic ions, 1950, 30 410
 reversible inactivations, 1937, 17 454
 thyroxin, in vitro, 1951, 31 220
 in vivo, 1951, 31 214
- EOSIN**
 permeability of C.N.S. capillaries to, 1942, 22 128
- EPHEDRINE**
 mode of action, 1946, 26 176
 therapy for motion sickness, 1949, 29 358
- EPIDIDYMI**
 secretory function, 1951, 31 27

- DUNN, M S, MURPHY, E A and ROCKLAND, L B
Optimal growth of the rat, 1947, 27 72
- DUOCRININ
definition, 1950, 30 74
mechanism of release, 1950, 30 75
motility and secretory response, 1950, 30 75
preparation and properties, 1950, 30 75
- DUODENUM *see* INTESTINE, SMALL, duodenum
- DURA MATER
silica of, 1938, 18 334
- DUVE, C DE *see* BOUCKAERT, J P
- DYES
diffusion into joint spaces, 1940, 20 298
gastric absorption, 1948, 28 443
inhibition of brain metabolism, 1939, 19 177
- DYSENTERY TOXIN
permeability of C N S capillaries to, 1942, 22 130
- E**
E**A**
blood flow, nucleic acids, 1936, 16 300
- EARTHWORM
velocity of conduction in ganglionic cords, 1946, 26 339
- ECCLES, J C Synaptic and neuro-muscular transmission, 1937, 17 538
- ECHINOCHROME
oxidation reduction potentials, 1939, 19 197
- ECHINOCOCCUS
immunity to, 1940, 20 476
- ECHINODERMS
acetylcholine of tissues, 1946, 26 372
cholinesterase in nervous and neuro-muscular tissues, 1946, 26 370
- ECZEMA
unsaturated fatty acids, 1943, 23 262
- EDEMA
due to burns, 1945, 25 535
venous pressure, 1950, 30 25
- EDKINS' GASTRIN *see* GASTRIN
- α EFFECT
electrode size, 1936, 16 412
- EGG
formation of shell, 1938, 18 489
membranes, transport of fat across, 1939, 19 569
nicotinic acid of, 1940, 20 264
phospholipid turnover in, 1942, 22 305
shape, 1938, 18 486
vitamin K in, 1941, 21 196
white, avidin in, 1946, 26 481
formation in chicken, 1938, 18 485
yolk, formation, 1938, 18 482
- EGG WATER
agglutination of sperm by, 1948, 28 182
- ELADIC ACID
labeling, 1942, 22 311
- ELASMOBRANCHS
blood production, 1942, 22 376
- ELECTRIC CONDUCTIVITY
of irradiated protein solutions, 1936, 16 680
- ELECTRIC FISH
cholinesterase activity of nervous system, 1945, 25 629
- ELECTRIC ORGAN (EELS)
cholinesterase in, 1946, 26 369
- ELECTRIC POTENTIALS
during wound healing, 1936, 16 364
- ELECTRICAL RESISTANCE
capacitance in plant cells, 1936, 16 231
- ELECTRICITY
wound healing, 1936, 16 378
- ELECTROCARDIOGRAM
anatomy, physiology of heart, 1947, 27 415
body as conductor of electricity, 1947, 27 414
chloroform anesthesia, 1941, 21 331
embryonic heart, 1949, 29 41
genesis, 1947, 27 398
factors involved, 1947, 27 399
in burned patients, 1945, 25 551
injury, 1947, 27 401
laws governing spread of current in volume conductor, 1947, 27 408
nucleic acids, 1936, 16 305
snake venom, 1945, 25 158
sources of electric current, 1947, 27 405
topography of impulse origin and spread, 1947, 27 405
unipolar leads, 1947, 27 414
vector analysis, 1947, 27 412
- ELECTROENCEPHALOGRAM
acetylcholine, 1945, 25 598
acute lesions of brain stem, 1950, 30 470
arousal reaction, 1950, 30 468
brain stem reticular formation, 1950, 30 469
chronic brain stem lesions, 1950, 30 470
concussion, 1945, 25 306
wakefulness and sleep, 1950, 30 467
- ELECTROLYTE METABOLISM
in stress, adrenal cortex, 1950, 30 288
- ELECTROLYTES
change in muscular activity, 1936, 16 475
dissociation, law of mass action, 1938, 18 497
exchange between inhaled fluid and blood in pulmonary capillaries, 1944, 24 71
excretion, 1941, 21 550
hemolysis, 1936, 16 37, 1936, 16 28
hydropolar, membrane permeability, 1936, 16 72
in renal disease, 1951, 31 296
irradiation of proteins, 1936, 16 674
metabolism, adrenal cortex, 1949, 29 281
of body fluids, of normal infant, 1939, 19 424
of fetus and infant, 1939, 19 422
of muscle, 1936, 16 450
denervation, 1939, 19 17
in vitamin E deficiency, 1943, 23 39
of serum and synovial fluid, 1940, 20 288
permeability of skin, 1946, 26 521
wound healing, 1936, 16 363
- ELECTROMOTIVE FORCE
measurement of pH, 1947, 27 232
- ELECTRON DIFFRACTION
determination of ultrastructure of protoplasm, 1939, 19 280
- ELECTROPHORESIS
analysis of plasma proteins, 1947, 27 625
of serum globulin, 1947, 27 629

- biological and medical applications, 1947, 27 621
 observations and applications, 1947, 27 622
 of viruses, 1948, 28 360
 preparative, 1947, 27 625
 technique, 1947, 27 621
- ELECTROPHORETIC MOBILITY**
 of cell not agglutinated by virus, 1951, 31 139
- ELECTROPHORUS**
 electric organ, cholinesterase, 1946, 26 369
- ELECTROPHYSIOLOGY**
 invertebrate, 1947, 27 643
 laws governing spread of current in volume conductor, 1947, 27 408
- ELECTROSHOCK**
 17-ketosteroids, 1950, 30 364
- ELEPHANT**
 insensible loss of water, 1942, 22 15
 metabolic rate per day, 1947, 27 529
- EMBDEN-MEYERHOF SCHEME**
 as pathway of glycolysis, 1943, 23 125
 in blood, 1941, 21 418
- ELLIOTT, K. A. C.** Intermediary metabolites and, respiratory catalysis, 1941, 21 267
- ELMAN, R.** Nitrogen balance by plasma and proteins, 1944, 24 372
- ELVEHJEM, C. A.** Relation of nicotinic acid to pellagra, 1940, 20 249
- EMBOLISM**
 multiple of lung, 1950, 30 475
- EMBRYO**
 comparative physiology, 1941, 21 438
 first heart contractions, 1949, 29 35
 formation of primary heart regions, 1949, 29 32
 heart beat, 1949, 29 31
 nutrition, 1941, 21 438
 protein anabolism, 1936, 16 8
- EMMENTIN**
 from placenta, 1938, 18 420
- EMOTION**
 antidiuretic hormone, 1948, 28 144
 leukocyte count, 1943, 23 296
- ENAMEL**
 fluorosis, 1945, 25 463
 mineral deficiency, 1945, 25 460
 mottled, fluorides, 1940, 20 586
 vitamin A deficiency, 1945, 25 443
 vitamin C deficiency, 1945, 25 451
 vitamin D deficiency, 1945, 25 456
- ENDOTHELIUM**
 thrombosis, 1938, 18 218
- ENERGY**
 free, change in reaction, 1938, 18 519
 of pyruvate oxidation, 1948, 28 290
 radiant, wound healing, 1936, 16 378
- ENERGY METABOLISM**
 hypothalamic lesions, 1946, 26 548
 of heart, 1936, 16 629
 protein-sparing, 1951, 31 473
- ENERGY-RICH PHOSPHATES**
 of uterus, 1951, 31 261
 sympathomimetic amines, 1946, 26 177
- ENGSTROM, W. W.** *see* MASON, H. L.
- ENOLASE**
 metallic ions, 1950, 30 422
- ENTEROANTHELMONE**
 discussion, 1950, 30 71
- ENTEROCININ**
 definition, 1950, 30 76
 mechanism of release, 1950, 30 76
 preparation and chemical property, 1950, 30 77
- ENTEROGASTRONE**
 assay, 1950, 30 63
 definition, 1950, 30 61
 endogenous compared with exogenous, 1950, 30 65
 physiologic properties, 1950, 30 65
 preparation and properties, 1950, 30 65
 secretory and motor inhibition, 1950, 30 68
 site of formation, 1950, 30 62
 stimuli for release, 1950, 30 62
- ENTEROKINASE**
 duodenal secretions, 1941, 21 38
 in intestinal secretion, 1941, 21 49
- ENVIRONMENT**
 equivalent, 1947, 27 208
 in terms of skin temperature, 1947, 27 209
 operative temperature, 1947, 27 209
 physical instruments for measuring, 1947, 27 210
 obesity, 1944, 24 40
- ENZYMES**
 autolysis by, in wound healing, 1936, 16 367
 autolytic, 1938, 18 184
 activation, 1938, 18 187
 coenzymes, 1939, 19 353
 copper containing, 1950, 30 408
 distribution, micromethods, 1951, 31 432
 sampling methods, 1951, 31 433
 formation, 1937, 17 144
 from inactive precursors, 1937, 17 147
 genetic control, 1941, 21 503
 heavy metals and activity, 1937, 17 456
 histochemical studies, 1946, 26 13
 inactivation by ultraviolet radiation, 1950, 30 438
 lead, 1938, 18 564
 metal ions, 1950, 30 393
 metallo-, metallic specificity, 1950, 30 396
 of decarboxylation, 1951, 31 57
 of fat metabolism, 1945, 25 395
 of gastrointestinal tract, morphine, 1937, 17 637
 of intestinal secretion, 1941, 21 48
 of synovial fluid, 1940, 20 288
 oxidative, histochemical studies, 1946, 26 13
 oxygen tension, 1945, 25 23, 1945, 25 101, 1945, 25 130
 proteolytic, metallic ions, 1950, 30 410
 reversible inactivations, 1937, 17 454
 thyroxine, in vitro, 1951, 31 220
 in vivo, 1951, 31 214
- EOSIN**
 permeability of C.N.S. capillaries to, 1942, 22 128
- EPHEDRINE**
 mode of action, 1946, 26 176
 therapy for motion sickness, 1949, 29 358
- EPIDIDYMIS**
 secretory function, 1951, 31 27

- EPIDON**
antipileptic, 1948, 28 422
- EPIGLOTTIS**
failure to close completely, 1941, 21 115
- 3-EPI HYDROXY-AETIO-ALLOCHOLANOL-17** *see* AN-DROSTANEDIOLS
- 3-EPI HYDROXY-AETIO-ALLOCHOLANONE-17** *see* AN-DROSTERONES
- EPILEPSY**
adrenocortical hormones, 1949, 29 299
- EPINEPHRINE**
acetylcholine, in C.N.S., 1945, 25 377
synthesis, 1945, 25 623
antagonism to acetylcholine and smooth muscle, 1944, 24 472
to curare, 1947, 27 468
to insulin, 1947, 27 68
arthropod nervous system, 1946, 26 471
as local hormone, 1950, 30 177
assay, 1943, 23 8
blood vessels, 1950, 30 184
of rabbit ear, 1950, 30 186
body temperature, 1946, 26 262
calorigenic action, 1951, 31 151
carbohydrate metabolism, 1951, 31 162
cardiac glycogen, 1936, 16 598
irregularities and, in inhalation anesthesia, 1941, 21 344
response in chloroform anesthesia, 1941, 21 331
cardiovascular effects and metabolic rate, 1951, 31 171
cerebral circulation, 1936, 16 550
concentration and effect, 1951, 31 159
coronary blood flow, 1946, 26 42
denervated muscle, 1945, 25 377
difference from sympathin, 1937, 17 517
formation in body, 1946, 26 169
hyperglycemic effects, 1946, 26 175
increased production of due to bee or cobra venom 1945, 25 149
inhibitory action, 1943, 23 8
melanin, 1950, 30 115
metabolic rate of cells, tissues and, 1951, 31 154
oxidation reduction potentials, 1939, 19 197
potassium, 1940, 20 391
prostatic secretion, 1945, 25 284
prostigmene, 1945, 25 382
release of acetylcholine, 1945, 25 624
ascorbic acid, 1936, 16 444
requirements for calorigenic action, 1951, 31 160
respiration and, in exercise, 1944, 24 331
reversal of effect, 1950, 30 187
skeletal muscle activity, 1951, 31 177
smooth muscle action potentials, 1944, 24 478
sympathin, 1937, 17 515
synergism with acetylcholine, 1945, 25 390
thyroxin and, exophthalmos, 1949, 29 273
toxemia of pregnancy, 1948, 28 3
vasodilator action, 1938, 18 141
venous pressure, 1950, 30 16
veratrum alkaloids, 1946, 26 401
- EPITHELIAL TISSUE**
sensitivity to radiation, 1944, 24 231
culture, 1937, 17 603
vitamin A deficiency, 1942, 22 234
- EPITHELIOMA** *see* NEOPLASMS
- EPM** *see* ELECTROPHORETIC MOBILITY
- EREPSIN**
definition, 1941, 21 58
- ERGINE** *see* ERGOT ALKALOIDS
- ERGOBASINE** *see* ERGOT ALKALOIDS
- ERGOCLAVINE** *see* ERGOT ALKALOIDS
- ERGOCRISTININE** *see* ERGOT ALKALOIDS
- ERGOMETRINE** *see* ERGOT ALKALOIDS
- ERGOMETRININE** *see* ERGOT ALKALOIDS
- ERGONININE-ERGOTOXINE PAIR**
formula, 1938, 18 310
- ERGONOVINE** *see* ERGOMETRINE
- ERGOSINE** *see* ERGOT ALKALOIDS
- ERGOSINE-ERGOSININE PAIR**
formula, 1938, 18 312
- ERGOSININE** *see* ERGOT ALKALOIDS
- ERGOT**
assay, 1938, 18 323
pharmacological properties, 1938, 18 297
- ERGOT ALKALOIDS**
as sympatholytic drug, 1943, 23 13
brain circulation, 1936, 16 555
chemistry, 1938, 18 302
formula, 1938, 18 309
pharmacology, 1938, 18 312
physical properties, 1938, 18 304
smooth muscle response, 1944, 24 474
scorpion venom, 1945, 25 152
- ERGOTAMINE-ERGOTAMININE PAIR**
formula, 1938, 18 310
- ERGOTAMININE** *see* ERGOT ALKALOIDS
- ERGOTININE** *see* ERGOT ALKALOIDS
- ERGOTISM**
description, 1938, 18 322
- ERGOTOXINE** *see* ERGOT ALKALOIDS
- ERSHOFF, B. H.** Conditioning factors in nutritional disease, 1948, 28 107
- ERYTHEMA**
irradiation of histidine, 1936, 16 682
sunburn, 1945, 25 494
- ERYTHRITOL TETRANITRATE**
industrial health hazard, 1942, 22 178
- ERYTHROBLASTOSIS FETALIS**
Rh blood factors, 1944, 24 462
- ERYTHROCYTES**
acclimatization, 1943, 23 173, 1943, 23 177
adsorption and enzymatic reaction of virus on surface, 1951, 31 138
biogenesis, 1951, 31 374
cellular capacity for chromoproteins, 1951, 31 383
count, oxygen tension, 1945, 25 21
cytochrome c and oxygen consumption, 1951, 31 417
destruction, 1937, 17 291, 1936, 17 296
formation, 1937, 17 291, 1940, 20 37
fragility, 1936, 16 31
in pathological states, 1951, 31 378

- intravascular agglutination, 1951, 31 107, 1951, 31 108
- lead, 1938, 18 565
- life span, 1937, 17 298, 1951, 31 374
- maturation, 1951, 31 379
- metabolism, 1951, 31 374
- mixed age population, 1951, 31 389
- mountain sickness, 1943, 23 173
- obsolescence, 1951, 31 395
- organic phosphates, 1941, 21 416
- oxygen transport, 1951, 31 374
- receptors, destruction by virus, 1951, 31 132
- shape, 1937, 17 296
- sickling, 1951, 31 381
- venous versus arterial, 1943, 23 177
- virus interaction, 1951, 31 132
- volume, methods of measuring, 1936, 16 22
- ERYTHROPOIESIS**
- extramedullary, 1942, 22 375
- intrinsic factor, 1937, 17 292
- metallic elements, 1940, 20 37
- stages, 1937, 17 293
- stimulus, 1937, 17 295
- ESCHERICHIA COLI**
- reversal of ultraviolet injury, 1950, 30 449
- ESERINE** *see* **PHYSOSTIGMINE**
- ESILIC ALCOHOL**
- growth response of plant like flagellates to, 1941, 21 3
- ESOPHAGUS**
- motility and morphine, 1937, 17 624
- silica of, 1938, 18 334
- ESSEX, H. E.** Animal venoms and their physiologic action, 1945, 25 148
- ESTERASE**
- localization in cells, 1941, 21 247
- ESTRADIOL**
- antagonism to testosterone, 1946, 27 314
- benzoate, capillary permeability and, 1947, 27 456
- S/L ratio, 1948, 28 25
- ESTRIN**
- calcification, 1940, 20 551
- myometrial action, 1937, 17 311
- uterine motility, 1937, 17 311
- ESTRIOL**
- from placenta, 1938, 18 420
- S/L ratio, 1948, 28 25
- ESTROGENS**
- calcium and phosphorus metabolism, 1943, 23 139
- capillary permeability, 1947, 27 456
- corticoid effects, 1945, 25 223
- development of mammary glands, 1944, 24 340
- follicular growth, 1947, 27 100
- formation in animal body 1938, 18 154
- in ovary of young, 1947, 27 103
- growth of leukemic cells, 1946, 26 67
- inhibition of lactation, 1944, 24 354
- local action on chick's comb, 1948, 28 38
- on mammary gland, 1948, 28 31
- on nasal mucosa, 1948, 28 40
- on nipple, 1948, 28 30
- on penis, 1948, 28 37
- on seminal vesicle, 1948, 28 37
- on sparrow's bill, 1948, 28 39
- on uterus, 1948, 28 28
- on vulva, 1948, 28 34
- mammalian skeleton, 1943, 23 145
- metabolism, 1948, 28 10
- ossification centers, 1943, 23 145
- ovulation, 1947, 27 110
- plant growth, 1938, 18 540
- prostate, 1937, 17 81
- sexual behavior, 1947, 27 276
- skeletal system, 1943, 23 139
- synergism with progesterone in mammary development, 1944, 24 342
- toxemia of pregnancy, 1948, 28 8, 1948, 28 13
- uterine growth, 1951, 31 245
- ESTRONE**
- histological changes in anterior pituitary, 1937, 17 573
- mammary gland, 1936, 16 494
- methvl, S/L ratio, 1948, 28 25
- S/L ratio, 1948, 28 25
- ESTRUS**
- survival of adrenalectomy, 1945, 25 220
- ESTRUS CYCLE**
- in pregnancy, 1938, 18 589
- mammary gland, 1936, 16 490
- sexual behavior, 1947, 27 272
- uterine contractions, 1937, 17 304
- vitamin B-complex, in hyperthyroidism, 1943, 23 365
- ETHANE**
- anesthetic gas, 1938, 18 454
- ETHER**
- brain metabolism, 1939, 19 173
- ETHER ANESTHESIA**
- cardiac irregularity, 1941, 21 342
- epinephrine and cardiac irregularities, 1941, 21 344
- heart rate and strength of contraction, 1941, 21 341
- ETHINYL ESTRADIOL** *see* **ESTRADIOL**
- ETHINYL-DIHYDRO-EQUILIN**
- S/L ratio, 1948, 28 25
- ETHIONINE**
- antagonism to methionine, 1947, 27 313
- metabolic inhibition of methionine, 1945, 25 697
- ETHYL ALCOHOL**
- bacteriophage, 1936, 16 137
- denaturation of proteins, 1936, 16 673
- gastric absorption, 1948, 28 436
- growth response of plant-like flagellates, 1941, 21 3
- metabolism, body temperature, 1946, 26 260
- oxidation in brain, 1939, 19 166
- permeability of collodion membranes, 1936, 16 56
- porphyrin metabolism, 1947, 27 484
- protein-sparing effect, 1951, 31 469
- ETHYL ETHYLENE** *see* **α -BUTYLENE**
- 17 ETHYL-3-EPIDHYDROXY-AETIO-ALLOCHOLANOL-17** *see* **ANDROSTANEDIOLS**
- 17 ETHYL-3-HYDROXY-AETIO-ALLOCHOLANOL-17** *see* **ANDROSTANEDIOLS**
- 17 ETHYL-3-KETO-AETIO-ALLOCHOLANOL-17** *see* **ANDROSTANOLS**

- Δ^4 17 ETHYL-3 KETO-AETIOCHOLENOL-17 *see* TESTOSTERONE
- Δ^4 17-ETHYLAETIO-CHOLENEDIOL-3 TRANS 17 *see* ANDROSTENEDIOLS
- Δ^4 -17 ETHYLANDROSTENOL-17 ONE-3 *see* TESTOSTERONE
- ETHYL NICOTINATE
anti black tongue activity, 1940, 20 258
- ETHYL NITRATE
industrial health hazard, 1942, 22 177
- ETHYL SULFURYL CHLORIDE
industrial health hazard, 1942, 22 177
- ETIOCHLAN-3(α)-OL-17-ONE *see* ETIOCHOLANOLONES
- ETIOCHOLANE 3(α), 11(β) DIOL 17-ONE *see* ETIOCHOLANOLONES
- ETIOCHOLAN-3(α) OL 11, 17-DIONE *see* ETIOCHOLANOLONES
- ETIOCHOLANE-3,17-DIONE *see* ETIOCHOLANEDIONE
- ETIOCHOLANEDIONE
isolated from human urine, 1950, 30 324
- ETIOCHOLANOLONES
isolated from human urine, 1950, 30 324
- EVANS BLUE
as measure of circulating blood volume, 1944, 24 493
- EVAPORATION
capacity, maximum, 1947, 27 204
upper limits, 1947, 27 205
heat exchange, 1947, 27 204
less than maximum, 1947, 27 204
- EVERSOLE, W J *see* GAUNT, R
- EVIPAL
anesthetic dose in various species, 1939, 19 497
- EVIPAN
tissue respiration, 1939, 19 172
inhibition of brain metabolism, 1939, 19 173
- EXERCISE
aerobolism, 1947, 27 387
antidiuretic hormone, 1948, 28 144
blood iodine, 1940, 20 358
blood lactate and oxygen consumption, 1950, 30 232
blood sugar, 1942, 22 41
body temperature and respiration, 1944, 24 329
diabetes insipidus, 1945, 25 581
duration, on different diets, 1942, 22 37
glucose tolerance, 1942, 22 42
hyperpnea, 1944, 24 319
increased body requirements, 1948, 28 119
ketone body utilization, 1945, 25 416
17-ketosteroids, 1950, 30 360
lactate, 1942, 22 43
mode of action of stimulus on respiration, 1950, 30 223
moderate, 1936, 16 264
motor cortex, respiratory center, 1944, 24 332
muscular, economy, 1936, 16 263
efficiency, diet, 1942, 22 34
fuel for, 1942, 22 32
mechanical efficiency, 1942, 22 32
nitrogen excretion, 1942, 22 47
passive, respiration, 1950, 30 230
ventilatory response, 1950, 30 232
predicted metabolic pathway, 1950, 30 228
reflexes from auricle during, 1944, 24 329
reflexes from limbs, 1944, 24 323
from lungs, 1944, 24 328
from vena cava, 1944, 24 329
regulation of breathing, 1950, 30 220
respiration, epinephrine, 1944, 24 331
metabolites formed, 1944, 24 319
severe, lactic acid acidosis, 1950, 30 231
stimulus to respiration, pathway traveled by, 1950 30 227
vascular occlusion experiments, 1950, 30 230
vascular volume, 1950, 30 10
vitamin B deficiency, 1948, 28 120
water balance, 1944, 24 521
- EXOPHTHALMOS
anterior pituitary hormones, 1949, 29 274
BMR, 1949, 29 268
endocrine origin, in man, 1949, 29 265
experimental, 1949, 29 260
extra-ocular muscles, 1949, 29 268
fat infiltration, 1949, 29 271
hormones, 1949, 29 272
in Graves' disease, motoneurons, 1949, 29 275
lid retraction, 1949, 29 276
nervous origin in man, 1949, 29 265
ophthalmoplegia, 1949, 29 270
orbital edema, 1949, 29 271
muscles, 1949, 29 266
review, 1949, 29 260
smooth muscle mechanisms, 1949, 29 266
Tenon's capsule, 1949, 29 268
thyroxin, 1949, 29 273
epinephrine, 1949, 29 273
- EXTENSOR THRUST
mediation in spinal cord, 1944, 24 5
- EXTRACELLULAR FLUID
movement of water from blood, 1944, 24 491
pregnancy, 1944, 24 515
volume, 1944, 24 495
factors affecting, 1944, 24 496
- EXTRA OCULAR MUSCLES
exophthalmos, 1949, 29 268
- EYE
edema of orbital tissues, 1949, 29 271
ergonovine, 1938, 18 319
motion sickness, 1949, 29 325
sunlight, 1945, 25 512
vitamin A distribution, 1944, 24 218
- EYELIDS
retraction, exophthalmos, 1949, 29 276
- F₇₁₀
in avian malaria, 1942, 22 197
- F 852
in avian malaria, 1942, 22 197
- F 929
minimum effective doses, 1947, 27 552
pharmacology, 1947, 27 543
- F 933
arthropod nervous system, 1946, 26 471
- F 1571
minimum effective doses, 1947, 27 552
pharmacology, 1947, 27 544

- FAIRHALL, L. T. Inorganic industrial hazards, 1945, 25 182
- FALLOPIAN TUBES
action potentials, 1944, 24 480
menstruation, 1937, 17 45
- FAMILIAL PERIODIC PARALYSIS
ionic ions and, 1951, 31 294
- FASTING
as antiepileptic therapy, 1948, 28 423
- FAT
changes in intestinal cell, 1946, 26 113
deposition of, from carbohydrate and protein, 1948, 28 454
depots, 1940, 20 571
infiltration, exophthalmos, 1949, 29 271
insulin of pancreas, 1944, 24 418
nervous regulation of deposition and mobilization, 1948, 28 456
nitrogen balance, 1951, 31 456
of blood, clinical significance of changes, 1940, 20 14
in obese and normal individuals, 1944, 24 27
of portal blood, 1946, 26 116
of rat body, diet, 1947, 27 85
passage through outer membrane of intestinal cell 1946, 26 110
permeability of skin to, 1946, 26 525
protein deposition and loss, 1951, 31 473
regulation of deposition and mobilization, 1948, 28 456
soap formation, in small intestine, 1939, 19 558
transport, 1939, 19 572
across egg membranes, 1939, 19 569
across placenta, 1939, 19 568
in blood, 1940, 20 569
in body, 1939, 19 557
liver, 1939, 19 562
vitamin A fluorescence, in tissue, 1944, 24 220
utilization by heart, 1936, 16 616
- FAT (DIETARY)
absorption, 1940, 20 561
bile, 1939, 19 559
by lymph system, 1939, 19 561
dietary factors, 1940, 20 562
emulsification, 1946, 26 103
from intestine, 1939, 19 557
gastric, 1948, 28 440
intestinal factors, 1940, 20 563
into portal circulation, 1939, 19 560
metabolism, 1940, 20 561
theories of intestinal, 1946, 26 104
added to adequate diets, 1951, 31 451
animal, pregnancy, lactation, 1945, 25 680
body fat, 1937, 17 347
carcinogenesis, 1944, 24 179, 1944, 24 190
carrier of vitamins, 1937, 17 339
digestibility, 1943, 23 256
absorption of and, 1937, 17 361
melting point, 1943, 23 257
digestion, 1939, 19 557, 1945, 25 664
absorption of protein, 1951, 31 471
distribution of absorbed, 1946, 26 115
D N ratio, 1941, 21 149
hydrolysis in intestine, 1946, 26 106
milk fat, 1937, 17 355
non-caloric functions, 1943, 23 256, 1945, 25 666
of white, enriched white, and whole wheat flours, 1944, 24 272
pregnancy, lactation, 1945, 25 680
protein-sparing effect, 1951, 31 449
mode of action, 1951, 31 477
rancid, destruction of vitamins A and E, 1943, 23 268
toxicity, 1943, 23 269
relation to other nutrients, 1943, 23 263
relative nutritive value, 1945, 25 664
requirement of other nutrients, 1945, 25 671
role, 1937, 17 335
satiety value, 1937, 17 336
sources of essential fatty acids, 1945, 25 666
of known vitamins, 1945, 25 667
new dietary essentials, 1945, 25 669
sparing action on other nutrients, 1945, 25 671
triglyceride, absorption from intestine, 1946, 26 103
utilization, 1945, 25 664
diet, 1940, 20 577
vegetable, growth, 1945, 25 664, 1945, 25 673
pregnancy, lactation, 1945, 25 680
vitamin B sparing action, 1937, 17 344
- FAT DIET, HIGH
diabetes, 1949, 29 56
goiter, 1950, 30 518
metabolism, after hypophysectomy, 1938, 18 283
- FAT-FREE DIET
growth, 1951, 31 463
- FAT METABOLISM
conversion to carbohydrate, 1941, 21 154, 25 425
enzymes, 1945, 25 395
gluconeogenesis, 1941, 21 148
hypothalamic lesions, 1946, 26 555
in mammary gland, 1944, 24 359
in parasitic helminths, 1949, 29 205
in stress, adrenal cortex, 1950, 30 288
integration of carbohydrate, 1945, 25 420
intermediary, phlorrhizin, 1945, 25 273
of placenta and fetus, 1941, 21 448
oxidation in muscle, 1945, 25 417
protein-sparing action of intermediates, 1951, 31 475
- FAT TISSUE
decompression sickness, 1947, 27 379
vitamin A distribution, 1944, 24 217
- FATIGUE
discussion, 1937, 17 438
17-ketosteroids, 1950, 30 360
leukocyte count, 1943, 23 291
measurement, 1937, 17 438
mental work, 1937, 17 436
rest and recovery, 1937, 17 449
transfer, 1937, 17 448
- FATTY ACIDS
as surface films, 1936, 16 92
acetic acid formation, 1947, 27 586, 1947, 27 596
beta oxidation, 1945, 25 399
condensation theory, 1945, 25 402
complete oxidation, 1946, 26 146
containing deuterium, 1942, 22 314
desaturation and saturation, 1940, 20 228
dietary, transport and deposition, 1940, 20 227

FATTY ACIDS

- essential, 1937, 17 341, 1943, 23 261
- eczema, 1943, 23 262
- fats as sources, 1945, 25 666
- in phosphatides of acid fast bacteria, 1946, 26 278
- interconversion, 1940, 20 228
- intermediary metabolism, 1940, 20 229, 1945, 25 395
- ketone production from, 1945, 25 399
- length of chain and utilization, 1943, 23 259
- lower, metabolism, 1945, 25 406
- mechanisms of oxidation, 1947, 27 589
- metabolic pathways of derivatives, 1945, 25 427
- metabolism, 1940, 20 226, 1946, 26 142
- methods of separation and identification, 1946, 26 276
- mobilization and utilization, 1943, 23 258
- multiple alternate oxidation, 1945, 25 401
- odd and even numbered, ketone body formation, 1945, 25 413
- odd numbered, catabolism, 1945, 25 411
- metabolism, 1947, 27 588
- of cerebrosides and sphingomyelins, 1946, 26 278
- omega oxidation, 1945, 25 409
- oxidation, alternative pathways in liver, 1945, 25 428
- formation of Ca compounds, 1946, 26 236
- in brain, 1939, 19 167
- tricarboxylic acid cycle, 1946, 26 232
- presence in lipins, 1946, 26 276
- synthesis, 1940, 20 229
- transport, cholesterol ester, 1939, 19 569
- phosphorylation, 1939, 19 565
- unsaturation and utilization, 1943, 23 260

FATTY LIVERS *see* **LIVER, FATTY**

FEATHERS

- development, 1948, 28 397

FEELING-TONE

- in mental work, 1937, 17 441

FELDBERG, W Acetylcholine in central nervous system, 1945, 25 596

FEMALE

- genital sensations, 1947, 27 247
- non-contact stimulation and sexual behavior, 1947, 27 243

FENN, W O Electrolytes in muscle, 1936, 16 450

Potassium in physiological processes, 1940, 20 377

FERGUSON, J H Calcium factor in blood coagulation, 1936, 16 640

FERMENTATION COENZYME *see* **DIPHOSPHOPYRIDINE NUCLEOTIDE**

FERRET

- changes in adrenals with reproduction, 1945, 25 207
- transport of sperm from vagina to fallopian tubes, 1951, 31 4

FERRITIN

- amino acids of, 1951, 31 490
- antidiuretic effect, 1951, 31 509
- blood pressure, 1951, 31 507
- breakdown, 1951, 31 495
- composition, 1951, 31 489
- immunochemistry, 1951, 31 493
- iron absorption, 1951, 31 365
- isolation, 1951, 31 489

location and structure of iron, 1951, 31 491

metabolic pool of iron, 1951, 31 364

physiological function, 1951, 31 496

placental transport of iron, 1951, 31 499

SH-, vasodepressor activity, 1951, 31 503

storehouse of body iron, 1951, 31 363

structure and physiological functions, 1951, 31 489

synthesis, 1951, 31 494

undenatured, VDM, 1951, 31 503

VDM, 1951, 31 500

FERTILIZATION

immunity, 1948, 28 180

in vitro, 1951, 31 14

physiology, in mammals, 1951, 31 1

site, 1951, 31 13

FERTILIZIN

activating agent, 1948, 28 185

agglutinating action on spermatozoa, 1948, 28 181

effects, 1948, 28 180

role in fertilization, 1948, 28 190

spawning inducing agent, 1948, 28 186

specificity, 1948, 28 189

spontaneous reversal of agglutination, 1948, 28 187

'univalent', 1948, 28 187

production, 1948, 28 188

FETUS

arterial blood pressure, 1936, 16 106

ascorbic acid in brain, 1939, 19 178

blood flow, 1936, 16 118

blood volume, 1936, 16 104

calcium metabolism, 1939, 19 416

carbohydrate metabolism, 1941, 21 446

cardiac work, 1936, 16 109

circulation, changes at birth, 1944, 24 277

comparative physiology, 1941, 21 438

exchange of blood gases with mother, 1936, 16 118

hemoglobin, 1936, 16 127

increase in weight, 1941, 21 441

intermediary metabolism, 1941, 21 456

lipid metabolism, 1941, 21 448

mineral metabolism, 1941, 21 451

minute volume, 1936, 16 106

nutrition, 1941, 21 438

placenta and, 1941, 21 444

oxygen saturation of blood, 1936, 16 112

development and, 1944, 24 288

protein metabolism, 1941, 21 450

pulse rate, 1936, 16 117

renal function, 1948, 28 333

FEVER

ionic alterations, 1951, 31 301

porphyria, 1940, 20 443

urinary coproporphyrins, 1947, 27 487

FIBERS

ultrastructure, 1939, 19 283

FIBRILLATION

of muscle, denervation, 1939, 19 7

FIBRINOGEN

liver function, 1940, 20 195

FIBRINOGENASE

in prostatic fluid, 1945, 25 286

in semen, 1951, 31 48

- FIBRINOLYSIS**
 in prostatic fluid, 1945, 25 286
 in semen, 1951, 31 48
- FIBROBLAST**
 definition, 1937, 17 598
 sensitivity to radiation, 1944, 24 231
- FINCHES**
 anesthetic dose, 1939, 19 497
- FINGER**
 vasomotor activity and yawning, 1946, 26 165
- FISCHER, E** Vertebrate smooth muscle, 1944, 24 467
- FISH**
 anesthetic dose, 1939, 19 497
 calcium metabolism, 1943, 23 139
 liver, vitamin A fluorescence, 1944, 24 215
 neoplasms, 1949, 29 91
 genetic factors, 1949, 29 102
 thyroid, 1949, 29 100
 vision, 1937, 17 247
 zinc in blood, 1949, 29 372
- FISTULA**
 colonic, secretion by, 1941, 21 58
 intestinal, characteristics and composition of secretion, 1941, 21 46
- FITZPATRICK, T B** *see* LERNER, A. B
- FLATWORMS**
 cephalic dominance in, 1946, 26 357
 cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
- FLECHSIG'S SYSTEM**
 in spinal cord, 1944, 24 7
- FLEXOR REFLEX**
 mediation in spinal cord, 1944, 24 4
- FLICKER**
 critical frequency, 1937, 17 263
 vision, 1937, 17 278
- FLOREY, H. W., WRIGHT, R. D. AND JENNINGS, M. A.**
 Secretions of the intestine, 1941, 21 36
- FLOUR**
 composition of white, enriched, and whole wheat, 1944, 24 271
- FLUID**
 as foreign matter in lung, 1941, 21 114
 total volume, in body, 1944, 24 499
- FLUORESCENCE**
 localization, 1944, 24 207
- FLUORESCENCE MICROSCOPY**
 history, 1944, 24 205
 localization of vitamin A in tissues, 1944, 24 205
 principle, 1944, 24 206
- FLUORIDE**
 enzymes, 1940, 20 600
 in drinking water, mottled enamel, 1940, 20 586
 in edible food, 1940, 20 584
 industrial uses, 1940, 20 583
 inhibition of brain metabolism, 1939, 19 176
 of glycolysis, 1943, 23 132
 intoxication, 1940, 20 582
 acute, 1940, 20 587
 chronic, 1940, 20 588
 in animals, 1940, 20 593
 in man, 1940, 20 587
 prophylactic measures, 1940, 20 601
 occurrence and distribution, 1940, 20 583
 plant growth, 1940, 20 595
 removal from drinking water, 1940, 20 601
- FLUORINE**
 of bone, 1937, 17 129
 industrial hazard, 1945, 25 194
- FLUOROACETATE**
 antagonism to acetic acid, 1947, 27 312
- FLUOROSIS**
 symptoms, 1945, 25 194
 teeth, 1945, 25 463
- FOLIC ACID**
 achromotrichia, 1948, 28 373
 antagonistic structural analogs, 1947, 27 312
 assay with, 1948, 28 98
 biological activity, 1948, 28 53
 celiac disease, 1948, 28 91
 clinical effects, 1948, 28 81
 distribution, 1948, 28 98
 enzymatic liberation, 1948, 28 79
 excretion, 1948, 28 93
 formula, 1948, 28 53
 glossitis of pellagra, 1948, 28 91
 in nutrition of rats, 1948, 28 68
 isolation, 1948, 28 71
 megaloblastic anemia in infancy, 1948, 28 90
 microbiological assay, 1948, 28 96, 1948, 28 256
 extraction procedure, 1948, 28 271
 nutritional macrocytic anemia, 1948, 28 90
 nutritional value, 1948, 28 51
 para aminobenzoic acid, in bacterial nutrition, 1948, 28 64
 pernicious anemia, 1948, 28 82
 pharmacology, 1948, 28 94
 poultry nutrition, 1948, 28 57
 preparations having activity, 1948, 28 52
 properties, 1948, 28 72
 radiation sickness, 1948, 28 91
 related compounds, 1948, 28 53
 sprue, 1948, 28 88
 structure, 1948, 28 75
 synthesis, 1948, 28 77
 thymine, 1948, 28 65
- FOLLICLE CELLS** *see* OVARIES
- FOLLICLE STIMULATING HORMONE**
 definition, 1946, 26 575
 follicular growth, 1947, 27 99
 ovulation, 1947, 27 105, 1947, 27 112
 preparation, 1946, 26 598
 properties, 1946, 26 600
- FOOD**
 duodenal secretion, 1941, 21 39
 ingestion, mechanical efficiency of muscular exercise, 1942, 22 36
 intake, hypothalamic lesions, 1946, 26 548
 physical character, caries, 1945, 25 466
 periodontal disease, 1945, 25 467
 utilization, body size, 1947, 27 535
- FOOT**
 strength-duration curve, 1936, 16 409

FATTY ACIDS

- essential, 1937, 17 341, 1943, 23 261
- eczema, 1943, 23 262
- fats as sources, 1945, 25 666
- in phosphatides of acid fast bacteria, 1946, 26 278
- interconversion, 1940, 20 228
- intermediary metabolism, 1940, 20 229, 1945, 25 395
- ketone production from, 1945, 25 399
- length of chain and utilization, 1943, 23 259
- lower, metabolism, 1945, 25 406
- mechanisms of oxidation, 1947, 27 589
- metabolic pathways of derivatives, 1945, 25 427
- metabolism, 1940, 20 226, 1946, 26 142
- methods of separation and identification, 1946, 26 276
- mobilization and utilization, 1943, 23 258
- multiple alternate oxidation, 1945, 25 401
- odd and even numbered, ketone body formation, 1945, 25 413
- odd numbered, catabolism, 1945, 25 411
- metabolism, 1947, 27 588
- of cerebroside and sphingomyelins, 1946, 26 278
- omega oxidation, 1945, 25 409
- oxidation, alternative pathways in liver, 1945, 25 428
- formation of C₃ compounds, 1946, 26 236
- in brain, 1939, 19 167
- tricarboxylic acid cycle, 1946, 26 232
- presence in lipins, 1946, 26 276
- synthesis, 1940, 20 229
- transport, cholesterol ester, 1939, 19 569
- phosphorylation, 1939, 19 565
- unsaturation and utilization, 1943, 23 260

FATTY LIVERS *see* LIVER, FATTY

FEATHERS

- development, 1948, 28 397

FEELING-TONE

- in mental work, 1937, 17 441

FELDBERG, W Acetylcholine in central nervous system, 1945, 25 596

FEMALE

- genital sensations, 1947, 27 247
- non-contact stimulation and sexual behavior, 1947, 27 243

FENN, W O Electrolytes in muscle, 1936, 16 450

Potassium in physiological processes, 1940, 20 377

FERGUSON, J H Calcium factor in blood coagulation, 1936, 16 640

FERMENTATION COENZYME *see* DIPHOSPHOPYRIDINE NUCLEOTIDE

FERRET

- changes in adrenals with reproduction, 1945, 25 207
- transport of sperm from vagina to fallopian tubes, 1951, 31 4

FERRITIN

- amino acids of, 1951, 31 490
- antidiuretic effect, 1951, 31 509
- blood pressure, 1951, 31 507
- breakdown, 1951, 31 495
- composition, 1951, 31 489
- immunochemistry, 1951, 31 493
- iron absorption, 1951, 31 365
- isolation, 1951, 31 489

- location and structure of iron, 1951, 31 491
- metabolic pool of iron, 1951, 31 364
- physiological function, 1951, 31 496
- placental transport of iron, 1951, 31 499
- SH-, vasodepressor activity, 1951, 31 503
- storehouse of body iron, 1951, 31 363
- structure and physiological functions, 1951, 31 489
- synthesis, 1951, 31 494
- undenatured, VDM, 1951, 31 503
- VDM, 1951, 31 500

FERTILIZATION

- immunity, 1948, 28 180
- in vitro, 1951, 31 14
- physiology, in mammals, 1951, 31 1
- site, 1951, 31 13

FERTILIZIN

- activating agent, 1948, 28 185
- agglutinating action on spermatozoa, 1948, 28 181
- effects, 1948, 28 180
- role in fertilization, 1948, 28 190
- spawning inducing agent, 1948, 28 186
- specificity, 1948, 28 189
- spontaneous reversal of agglutination, 1948, 28 187
- 'univalent', 1948, 28 187
- production, 1948, 28 188

FETUS

- arterial blood pressure, 1936, 16 106
- ascorbic acid in brain, 1939, 19 178
- blood flow, 1936, 16 118
- blood volume, 1936, 16 104
- calcium metabolism, 1939, 19 416
- carbohydrate metabolism, 1941, 21 446
- cardiac work, 1936, 16 109
- circulation, changes at birth, 1944, 24 277
- comparative physiology, 1941, 21 438
- exchange of blood gases with mother, 1936, 16 118
- hemoglobin, 1936, 16 127
- increase in weight, 1941, 21 441
- intermediary metabolism, 1941, 21 456
- lipid metabolism, 1941, 21 448
- mineral metabolism, 1941, 21 451
- minute volume, 1936, 16 106
- nutrition, 1941, 21 438
- placenta and, 1941, 21 444
- oxygen saturation of blood, 1936, 16 112
- development and, 1944, 24 288
- protein metabolism, 1941, 21 450
- pulse rate, 1936, 16 117
- renal function, 1948, 28 333

FEVER

- ionic alterations, 1951, 31 301
- porphyria, 1950, 20 443
- urinary coproporphyrins, 1947, 27 487

FIBERS

- ultrastructure, 1939, 19 283

FIBRILLATION

- of muscle, denervation, 1939, 19 7

FIBRINOGEN

- liver function, 1940, 20 195

FIBRINOGENASE

- in prostatic fluid, 1945, 25 286
- in semen, 1951, 31 48

- GANGLIOSIDES**
definition, 1946, 26 276
- GANGRENE**
due to ergotism, 1938, 18 322
- GANOID FISHES**
blood production, 1942, 22 376
- GARDNER, E** Physiology of movable joints, 1950, 30 127
- GARDNER, W U AND PFEIFFER, C A** Influence of sex hormones on skeletal system, 1943, 23 139
- GARGOYLISM**
lipid metabolism, 1946, 26 310
- GASES**
gastric absorption, 1948, 28 443
permeability of skin, 1946, 26 522
- GASTRIC ABSORPTION** *see* STOMACH, absorption
- GASTRIC MOTILITY**
anoxia, 1941, 21 311
hunger contractions, 1941, 21 308
morphine and, 1937, 17 625
- GASTRIC SECRETION**
anoxia, 1941, 21 319
antihistamines, 1947, 27 560
morphine, 1937, 17 637, 1937, 17 638
- GASTRIN**
active tissue extracts, 1950, 30 41
chemical stimuli, 1950, 30 36
definition, 1950, 30 36
histamine, 1950, 30 44
mechanical stimuli, 1950, 30 37
nervous control of release, 1950, 30 40
site of formation, 1950, 30 38
- GASTROCNEMIUS MUSCLES**
strength-duration curve, 1936, 16 409
- GASTROINTESTINAL TRACT**
anoxia, 1941, 21 307
motility, 1941, 21 307
autonomic nervous system tests, 1943, 23 10
heat, 1947, 27 218
hormones, 1950, 30 33
endocrine glands, 1950, 30 34
nervous control of digestion, 1950, 30 35
morphine, 1937, 17 618
muscle, barbiturates, 1939, 19 477
- GAUCHER'S DISEASE**
characterization, 1946, 26 305
lipid metabolism, 1946, 26 305
- GAUNT, R, BIRNIE, J H AND EVERSOLE, W J** Adrenal cortex and water metabolism, 1949, 29 281
- GEMMILL, C L** The fuel for muscular exercise, 1942, 22 32
- GENE HORMONES**
discussion, 1941, 21 387
in invertebrates, 1941, 21 387
- GENES**
control by cellular physiology, 1941, 21 494
control of chain reactions, 1941, 21 505
duplication, 1941, 21 493
growth, 1941, 21 500
physical entity, 1941, 21 488
physiology, 1941, 21 487
unit of heredity, 1941, 21 487
- GENICULATE BODY, LATERAL**
anatomy, 1942, 22 214
efferent connections, 1942, 22 221
termination of optic fibers, 1942, 22 219
- GERMERINE**
formula, optical rotation and melting point, 1946, 26 385
hydrolysis products, 1946, 26 384
- GERMINE**
formula, optical rotation and melting point, 1946, 26 385
- GERSH, I** Recent developments in histochemistry, 1941, 21 242
see CATCHPOLE, H R.
- GIANT CRAB** *see* CRUSTACEA
- GIESE, A C** Ultraviolet radiation and protoplasm, 1950, 30 431
- GINGIVITIS**
niacin deficiency, 1945, 25 448
scorbutic, 1945, 25 453
- GIZZARD**
motility, anoxia, 1941, 21 309
- GLOBIN**
formation of hemoglobin, 1940, 20 40
- GLOBULIN**
food protein and production, 1940, 20 202
of seeds, 1945, 25 358
site of formation, 1940, 20 195
- GLOMERULAR FILTRATION**
definition, 1939, 19 63
rate, in newborn, 1948, 28 338
- GLOMERULAR NEPHRITIS**
plasma proteins, 1947, 27 630
- GLOMERULAR PRESSURE**
variations in and renal artery pressure, 1937, 17 417
- GLOMUS**
arterio-venous anastomoses, 1938, 18 234
- GLOSSITIS**
folic acid, 1948, 28 91
niacin deficiency, 1945, 25 448
riboflavin deficiency, 1945, 25 447
- GLOSSODYNIA**
vitamin B deficiency, 1945, 25 450
- GLUCOASCORBIC ACID**
analog of ascorbic acid, 1945, 25 705
antagonism to ascorbic acid, 1947, 27 312
- GLUCONATE**
oxidation in brain, 1939, 19 166
- GLUCONEOGENESIS**
from fat, 1941, 21 148
direct evidence, 1941, 21 155
from protein, 1941, 21 143
in diabetes, 1941, 21 142
in phlorhizinated animal, 1941, 21 147
- GLUCOSE**
absorption, anoxia, 1941, 21 318
anoxic heart, 1936, 16 606
fate, insulin, 1947, 27 52
formed from fructose, 1936, 16 195
from galactose, 1936, 16 198
gastric absorption, 1948, 28 438
glycogenesis, 1946, 26 139

- FORAMEN OVALE**
functional closure, 1944, 24 293
- FORMAMIDE**
permeability of collodion membranes to, 1936, 16 56
- FORMANILIDE**
industrial health hazard, 1942, 22 183
- FORBES, A** *see* DAVIS, H
- FOREBRAIN**
effector mechanisms, for sexual behavior, 1947, 27 256
sleep, 1950, 30 468
- FORMIC ACID**
fixation of carbon dioxide, 1946, 26 209
- FOWLS**
adrenal glands and gonadectomy, 1945, 25 209, 1945, 25 215
anesthetic dose, 1939, 19 497
sex differences in adrenal glands, 1945, 25 204
selenium poisoning, 1943, 23 314
- FRANSEN, ELIZABETH B** *see* HELLEBRANDT, FRANCES A
- FRAZER, A C** Fat absorption and fat metabolism, 1940, 20 561
—, Intestinal absorption of triglyceride fat, 1946, 26 103
- FREEZING**
damage to tissues, 1949, 29 160
- FRIEDEMANN, U** Blood brain barrier, 1942, 22 125
- FROG**
acetylcholine of nervous tissue, 1945, 25 627
activity cycles, 1949, 29 20
alloxan diabetes, 1948, 28 306
anesthetic dose, 1939, 19 497
cholinesterase, in muscle, 1946, 26 369
in sciatic nerve, 1946, 26 369
composition of muscle, 1936, 16 454
lethal dose of veratrum alkaloids, 1946, 26 389
toxicity of veratrum alkaloids, 1946, 26 388
velocity of nerve conduction, 1946, 26 340
vision, 1937, 17 247
zinc in blood, 1949, 29 372
- FRONTAL LOBE**
behavior and, 1939, 19 316
- FROST, D V** Nutritional deficiencies and graying, 1948, 28 368
- FRUCTOSE**
absorption from gastro-intestinal tract, 1936, 16 174
as glycogen former, 1936, 16 184
blood sugar level, 1936, 16 178
determination in blood, 1936, 16 178
excretion in urine, 1936, 16 208
factors affecting concentration in blood, 1936, 16 179
formation and phosphatase activity, 1951, 31 46
inhibition of brain metabolism, 1939, 19 173
insulin and metabolism, 1936, 16 200
intermediary metabolism, 1936, 16 173
ketolytic action, 1936, 16 206
mechanism of formation in semen, 1951, 31 37
permeability of collodion membranes, 1936, 16 57
 Q_{O_2} of minced guinea pig brain, 1939, 19 150
respiratory quotient, 1936, 16 188
specific dynamic action, 1936, 16 192
transformation into glucose, 1936, 16 195
utilization, 1936, 16 198
in diabetes, 1936, 16 204
- FRUCTOSE TEST**
androgenic potency, 1951, 31 36
- FRUCTOSURIA**
benign congenital, 1944, 24 172
- FSH** *see* FOLLICLE STIMULATING HORMONE
- FUHRMAN, F A** Body temperature and drug action, 1946, 26 247
- FUMARIC ACID**
fixation of carbon dioxide, 1946, 26 215
intermediary metabolite, 1941, 21 268
- FURTH, J** Leukemia, 1946, 26 47
- GALACTIN** *see* LACTOGENIC HORMONE
- GALACTOFLAVIN**
antagonism to riboflavin, 1947, 27 313
- GALACTOSE**
absorption from gastro-intestinal tract, 1936, 16 174
as glycogen former, 1936, 16 184
blood sugar level, 1936, 16 178
cataract production, 1937, 17 19
determination in blood, 1936, 16 181
excretion in urine, 1936, 16 208
factors influencing concentration in blood, 1936, 16 181
formation of polysaccharides, 1936, 16 186
inhibition of brain metabolism, 1939, 19 173
insulin and metabolism, 1936, 16 200
intermediary metabolism, 1936, 16 173
ketolytic action, 1936, 16 206
 Q_{O_2} of minced guinea pig brain, 1939, 19 150
respiratory quotient, 1936, 16 188
retention, dietary fat, 1945, 25 673
specific dynamic action, 1936, 16 192
toxicity, 1936, 16 210
transformation into glucose, 1936, 16 198
utilization, 1936, 16 199
in diabetes, 1936, 16 204
- GALEGINE**
substitute for insulin, 1949, 29 83
- GALL BLADDER**
action potentials, 1944, 24 482
silica of, 1938, 18 334
- GAMETOGENIC HORMONE** *see* FOLLICLE-STIMULATING HORMONE
- GAMETOKINETIC HORMONE** *see* FOLLICLE-STIMULATING HORMONE
- GANGLIA**
autonomic, 1942, 22 261
cells, vitamin E deficiency, 1943, 23 45
cords, velocity of conduction, 1946, 26 339
dorsal root, oxygen consumption and blood flow, 1936, 16 582
sympathetic, epinephrine, 1945, 25 389
transmission at synapse, 1937, 17 500
trigeminal, oxygen consumption and blood flow, 1936, 16 583

- renal, 1944, 24 170
 of pregnancy, 1944, 24 170
- GLYCYL-L-LEUCINE PEPTIDASE
 metallic ions, 1950, 30 413
- GLYOXYLIC ACID
 decarboxylation, 1951, 31 96
- GOAT
 blood volume at varying fetal ages, 1936, 16 104
 cardiac work in fetus, 1936, 16 109
 essential fatty acid requirement, 1943, 23 262
 hemolysis of erythrocytes from, 1936, 16 38
 metabolic rate per day, 1947, 27 529
 pulse rate of fetus, new born and adult, 1936, 16 117
- GORTER
 anti-substances in vegetables, 1950, 30 534
 experimental, chemical applications, 1950, 30 544
 iodine, 1950, 30 531
 mechanism of production, 1950, 30 536
 iodine metabolism, 1939, 19 433
 nutrition, 1950, 30 513
 simple, pathogenesis, 1950, 30 516
- GOLD
 detection in cells, 1941, 21 245
 intoxication, BAL, 1949, 29 185
 melanin formation, 1950, 30 120
- GOLDBLATT, H. Renal origin of hypertension, 1947, 27 120
- GNADOTROPHIN I *see* FOLLICLE-STIMULATING HORMONE
- GNADOTROPHIN II *see* LUTEINIZING HORMONE
- GNADOTROPIC ANTIHORMONES
 in animals, 1941, 21 614
- GNADOTROPIC HORMONE
 from placenta, 1938, 18 427
 hypothalamus, 1948, 28 161
 methods of assay, 1946, 26 598
 preparation of FSH, 1946, 26 598
 properties, 1946, 26 600
 toxemia of pregnancy, 1948, 28 1
- GNADS
 adrenal cortex, 1945, 25 203
 adrenal like activity, 1945, 25 218
 injury due to sex antagonism, 1937, 17 206
 insulin of pancreas, 1944, 24 422
 obesity, 1944, 24 39
- GOODMAN, L. S. *see* TOMAN, J. E. P.
- GOESE
 insensible loss of water 1942, 22 15
 zinc in blood, 1949, 29 372
- GRAAFIAN FOLLICLE *see* OVARY
- GRANT, S. Structure and functions of ferritin, 1951, 31 489
- GRANULOCYTES
 sensitivity to radiation, 1944, 24 231
- GRAVES' DISEASE
 with exophthalmos, motoneurons, 1949, 29 275
- GRAVITY
 compensation for hydrostatic effect, 1943, 23 231
- GRAY MATTER
 glutamic acid in, 1950, 30 550
 respiration, 1939, 19 146
- GREENWOOD, D. A. Fluoride intoxication, 1940, 20 582
- GREER, M. A. Nutrition and goiter, 1950, 30 513
- GREGG, D. E. The coronary circulation, 1946, 26 28
- GRIFFITH, F. R., JR. Calorigenic action of adrenaline, 1951, 31 151
- GRODINS, F. S. Regulation of breathing in exercise, 1950, 30 220
- GROSSMAN, M. I. Gastrointestinal hormones, 1950, 30 33
- GROWTH
 absorption of calcium, 1940, 20 538
 animal, vegetable fat, 1945, 25 673
 as measurement of value of fat, 1943, 23 270
 auxin, 1938, 18 531
 calcium, ascorbic acid, 1943, 23 91
 carbohydrate versus fat, 1951, 31 464
 factors required in plants, 1938, 18 536
 genes, 1941, 21 500
 hemoglobin, 1951, 31 354
 in neoplasm, 1943, 23 101
 lead, in plant and animal tissues, 1938, 18 563
 metabolic pathways, 1950, 30 488
 nutritional requirements of invertebrates 1941, 21 15
 on carbohydrate-free diet, 1951, 31 463
 on fat-free diet, 1951, 31 463
 optimal, in rat, 1947, 27 72
 organ, of rat, 1947, 27 81
 potassium, 1940, 20 385
 seasonal variations, 1949, 29 21
 skeletal, gonadectomy, 1943, 23 147
 of rat, 1947, 27 79
 sunburn, 1945, 25 518
 thyroxine, 1951, 31 206
 time of ingestion of protein and carbohydrate, 1951, 31 465
 total body, of rat, 1947, 27 75
- GROWTH FACTORS
 for microorganisms, antimetabolites in animals, 1950, 30 490
- GROWTH HORMONE
 bone growth, 1937, 17 135
 definition, 1946, 26 575
 methods of assay, 1946, 26 594
 preparation, 1946, 26 594
- GUANIDINE
 antagonism to curare, 1947, 27 468
 clinical significance of changes, 1940, 20 11
- GUANINE
 antagonistic structural analogs, 1947, 27 312
 blood pressure, 1936, 16 298
 ultraviolet radiation, 1950, 30 447
- GUANOSINE
 blood pressure, 1936, 16 298
- GUANYLIC ACID
 blood pressure, 1936, 16 298
 ultraviolet radiation, 1950, 30 447
- GUEST, G. M. AND RAPOPORT, S. Phosphorus compounds of the blood, 1941, 21 410
- GUINEA PIG
 acetylcholine of nervous tissue, 1945, 25 627
 of outer intestinal layer, 1946, 26 371
 acute toxicity of antihistamines, 1947, 27 550

GLUCOSE

- immediate fate, insulin, 1947, 27 57
- in urine, benign, 1944, 24 169
- inhibition of brain metabolism, 1939, 19 173
- metabolism, nutrition, 1946, 26 140
- of human and canine prostatic fluids, 1945, 25 285
- oxidation, adrenal cortex, 1944, 24 104
- theories, 1938, 18 288
- QO₂ of brain, 1939, 19 150
- permeability of collodion membranes to, 1936, 16 57
- synthesis of acetylcholine, 1945, 25 620
- tubular reabsorption, 1939, 19 83
- utilization in phlorhizin diabetes, 1945, 25 269
- by mammalian heart, 1936, 16 610

GLUCOSE TOLERANCE TEST

- acidosis, 1938, 18 284
- discussion, 1941, 21 159
- exercise, 1942, 22 42
- in toxemia, 1939, 19 441, 1939, 19 445
- insulin, 1938, 18 278
- ketosis, 1938, 18 285
- liver, 1938, 18 277
- pancreas, 1938, 18 278

GLUCOSIDES

- absorption, anoxia, 1941, 21 319

GLUCURONIC ACID

- source, in detoxication, 1939, 19 343

GLUTAMATE

- acetylcholine synthesis, 1950, 30 557
- adrenal medulla, 1950, 30 560
- amide formation, 1950, 30 555
- antagonistic structural analogs, 1947, 27 312
- anticonvulsive effects, 1950, 30 560
- antiepileptic, 1948, 28 423
- fuel for brain respiration, 1950, 30 556
- hypoglycemia, 1950, 30 558
- inhibition of brain metabolism, 1939, 19 173
- metabolism in nervous tissue, 1950, 30 549
- microbiological assay, 1949, 29 247
- neuronal membrane permeability, 1950, 30 558
- of brain, 1950, 30 550
- oxidative deamination, 1950, 30 552
- psychological effects, 1950, 30 560
- reaction in brain, 1950, 30 549
- role in intermediary metabolism, 1941, 21 296
- transamination, 1950, 30 554

GLUTAMINE

- of brain, 1950, 30 550
- source, in detoxication, 1939, 19 340

GLUTATHIONE

- alloxan diabetes, 1949, 29 64
- beta cells, 1949, 29 61
- diabetes, 1949, 29 65
- heart metabolism, 1936, 16 608
- hippuric acid formation, 1940, 20 240
- insulin synthesis, 1949, 29 66
- metabolism of lens, 1937, 17 12
- of brain, 1939, 19 178
- of denervated muscle, 1939, 19 24

GLYCERALDEHYDE

- inhibition of brain metabolism, 1939, 19 176
- non phosphorylating glycolysis, 1943, 23 129

GLYCEROL

- bacteriophage, 1936, 16 137
- oxidation in brain, 1939, 19 166
- permeability of collodion membranes to, 1936, 16 57

GLYCEROPHOSPHATE

- inhibition of brain metabolism, 1939, 19 173
- oxidation in brain, 1939, 19 165

GLYCERYLPHOSPHORYLCHOLINE *see* CHOLINE COMPOUNDS

GLYCINE

- alternate metabolic pathways, 1950, 30 500
- antagonism to α alanine, 1947, 27 312
- metabolic building stone for porphyrin, 1951, 31 408
- microbiological assay, 1949, 29 247
- source, 1939, 19 339

GLYCININ

- of seeds, 1945, 25 356

GLYCOGEN

- acetic acid, 1947, 27 595
- cellular relation to phosphatase, 1946, 26 24
- deposition in adipose tissue, 1948, 28 455
- fixation of carbon dioxide, 1946, 26 216
- formation, phlorhizin, 1945, 25 261
- from galactose and fructose, 1936, 16 183
- insulin, formation from galactose and fructose, 1936, 16 202
- nervous regulation of deposition and mobilization, 1948, 28 456
- of body, phlorhizin, 1945, 25 265
- of heart, 1936, 16 597
- of muscle, denervation, 1939, 19 21
- of placenta, 1941, 21 446
- QO₂ of minced guinea pig brain, 1939, 19 150
- regulation of deposition and mobilization, 1948, 28 456
- retention after galactose and glucose, 1936, 16 185
- storage in toxemia, 1939, 19 440

GLYCOGENESIS

- carbon dioxide and lactate, 1946, 26 135
- diet, 1938, 18 267
- in liver, adrenal cortex, 1944, 24 103
- carbon dioxide and glucose, 1946, 26 139
- lactate, 1946, 26 137
- slices, toxemia, 1939, 19 452
- in muscle, 1946, 26 140
- in inanition, 1938, 18 270
- tricarboxylic acid cycle, 1946, 26 228

GLYCOGENOLYSIS

- due to insulin, 1947, 27 42

GLYCOLIC ACID

- permeability of collodion membranes to, 1936, 16 56

GLYCOLYSIS

- aerobic, temperature, in brain slices, 1939, 19 146
- anaerobic, phosphorylation, 1948, 28 286
- organic phosphates of blood, 1941, 21 417
- pathways, 1943, 23 124

GLYCOSURIA

- during parturition and lactation, 1944, 24 171
- emotional, 1944, 24 170
- phlorizin, N loss, carbohydrate, fat, 1951, 31 468

HEART CONDUCTION

- topography of origin and spread, 1947, 27 405
- veratrine response, 1946, 26 420
- veratrum alkaloids, 1946, 26 406

HEART FAILURE

- acute, 1938, 18 102
- backward, of left side, 1938, 18 95
- right side, 1938, 18 98, 1938, 18 100

HEART METABOLISM

- amino acid utilization, 1936, 16 625
- ammonia production, 1936, 16 625
- anoxemic, glucose, 1936, 16 606
- bromo-acetic acid, 1936, 16 608
- cold-blooded, 1936, 16 599
 - anaerobic metabolism, 1936, 16 606
 - lactic acid produced in, 1936, 16 604
- diabetic, 1936, 16 617
- energy, 1936, 16 629
- epinephrine, 1951, 31 171
- glutathione, 1936, 16 608
- glycogen, 1936, 16 597
- heat production, 1936, 16 629
- insulin 1936, 16 615
- iodoacetic acid, 1936, 16 608
- mammalian, 1936, 16 609
 - R.Q., 1936, 16 613
 - initial length, 1936, 16 633
 - work, 1936, 16 601
- phosphagen, 1936, 16 621
- phosphate, 1936, 16 619
- R.Q. 1936, 16 603
- utilization of fat, 1936, 16 616

HEART MUSCLE

- ATP in, 1936, 16 624
- first contractions in embryo, 1949, 29 35
- glycogen, carbohydrate oxidation, 1938, 18 290
- injury, alterations in electric state, 1947, 27 401
 - electrocardiogram, 1947, 27 401
- K and Na in, 1936, 16 467
- nucleic acids, 1936, 16 303
- resting, electric state, 1947, 27 399
- syncytial nature, 1947, 27 404

HEART RATE

- chloroform, 1941, 21 325
- denervated, autonomic nervous system, 1943, 23 10
- ether anesthesia, 1941, 21 341
- restricted evaporation of sweat, 1936, 16 277
- yawning, 1946, 26 165

HEART VENTRICLE

- cholinesterase in, 1951, 31 337
- oxygen consumption, 1936, 16 603

HEART LUNG PREPARATION

- utilization of ketone bodies, 1945, 25 415
- venous pressure in, 1950, 30 14

HEAT

- applied, carcinogenic action, 1944, 24 185
- denaturation of proteins, 1936, 16 672
- lactogenic hormone, 1946, 26 581
- loss in wound healing, 1936, 16 363
- melanin formation, 1950, 30 120

HEAT COMA

- acetylcholine metabolism, 1945, 25 632

HEAT CRAMPS

- in work and heat, 1936, 16 275

HEAT (ENVIRONMENTAL)

- acclimatization, 1947, 27 219
- body temperature, 1947, 27 210
- caloric requirement, 1947, 27 217
- circulation, 1947, 27 212
- equivalent environments, 1947, 27 208
- gastrointestinal tract, 1947, 27 218
- heat disease, 1947, 27 222
- leukocyte count, 1943, 23 299
- mathematical considerations, 1947, 27 201
- metabolism and nutrition, 1947, 27 217
- physiological responses, 1947, 27 200, 1947, 27 210
- salt depletion, 1947, 27 216
- specific dynamic action of proteins, 1947, 27 217
- sweating, 1947, 27 215
- thermal regulation, 1947, 27 218
- upper limits of tolerance, 1947, 27 221
- vasomotor regulation, 1947, 27 211
- vitamin requirements, 1947, 27 218
- work, 1947, 27 221

HEAT REGULATION

- elimination, insensible loss of water, 1942, 22 12
- environmental heat, 1947, 27 218
- exchange, equilibrium state, 1947, 27 205
- production, hypothalamic lesions and, 1946, 26 553
- of heart, 1936, 16 629

HEAT STROKE

- solar heat load, 1945, 25 521

HECHT, S Rods, cones, and chemical basis of vision, 1937, 17 239**HEIDELBERGER, C.** *see* POTTER, V R.**HELIUM**

- solubility in tissues, 1947, 27 369

HELIX

- velocity of nerve conduction, 1946, 26 340

HELLEBRANDT, FRANCES A. AND FRANSEEN, ELIZABETH B Vertical stance of man, 1943, 23 220**HELLERMAN, I.** Reversible inactivations of hydrolytic enzymes, 1937, 17 454**HELMINTHS, PARASITIC**

- anthelmintic agents, 1949, 29 211
- carbohydrate metabolism, 1949, 29 198
- digestion, 1949, 29 209
- lipid metabolism, 1949, 29 205
- metabolism, 1949, 29 195
- oxidative metabolism, 1949, 29 196
- protein metabolism, 1949, 29 206
- respiratory enzymes, 1949, 29 207

HEMALBUMIN

- from hemin, 1951, 31 399

HEMATIN

- antagonistic structural analogs, 1947, 27 313

HEMATO-ENCEPHALIC BARRIER

- exchange of substances through, 1942, 22 125
- pathology, 1942, 22 140
- permeability and electrical charge, 1942, 22 134

HEMATOCRIT

- acclimatization, 1943, 23 173
- diurnal variation, 1949, 29 13
- mountain sickness, 1943, 23 173

See page iii for guide to use of index

GUINEA PIG

- adrenal glands and gonadectomy, 1945, 25 210
- anaphylaxis, 1941, 21 572
- anesthetic dose, 1939, 19 497
- ascorbic acid of lens, 1937, 17 15
- castration and bone length, 1943, 23 148
- changes in adrenals with reproduction, 1945, 25 207
- cholinesterase, in brain cortex, 1946, 26 369
- in cervical sympathetic ganglion, 1946, 26 369
- experimental exophthalmos, 1949, 29 261
- fluoride intoxication, 1940, 20 594
- folic acid, 1948, 28 77
- hemolysis of erythrocytes from, 1936, 16 38
- insulin of pancreas, 1944, 24 412
- lethal dose of veratrum alkaloids, 1946, 26 389
- melanophores, 1948, 28 402
- metabolic rate per day, 1947, 27 529
- number of fibers in optic nerve, 1942, 22 207
- pigment pattern, 1948, 28 402
- Q₁₀ of brain cortex slices, 1939, 19 143
- with p-phenylenediamine, 1939, 19 149
- sex differences in adrenal glands, 1945, 25 205
- in pelvis, 1943, 23 149
- skeletal growth, estrogens, 1943, 23 155
- transport of sperm, 1951, 31 4
- uterus, ergonovine, 1938, 18 315

GUMS

- vitamin A deficiency, 1945, 25 444
- vitamin C deficiency, 1945, 25 451

GYMNOTUS

- electric organ, cholinesterase, 1946, 26 369

GYNECOMASTIA

- of malnutrition, 17 ketosteroids, 1950, 30 364

HAGFISH

- blood production, 1942, 22 376

HAIR

- as secondary sexual characteristics, 1939, 19 94
- chemistry, 1939, 19 101
- physiology, in man, 1939, 19 94
- shaft, properties, 1939, 19 99

HAIR FOLLICLES

- autonomy, 1939, 19 98
- cyclic activity, 1939, 19 103, 1939, 19 108

HAIST, R E Insulin content of pancreas, 1944, 24 409

HALICYSTIS

- salt uptake, 1949, 29 151

HALLACHROME

- formula, 1950, 30 97
- oxidation reduction potentials, 1939, 19 197

HAMSTER

- alloxan diabetes, 1948, 28 306
- uterus, ergonovine, 1938, 18 316

HARDEN AND YOUNG'S COENZYME *see* DIPHOSPHOPYRIDINE NUCLEOTIDE

HARDERIAN GLAND

- cholinesterase in, 1951, 31 337

HARDY, J D *see* WOLFF, H G

HARE

- sympathetic vasodilatation of muscle, 1938, 18 147

HARKINS, H N Thermal burns, 1945, 25 531

HARRIS, G W Neural control of pituitary gland, 1948, 28 139

HARRISON, T R Factors in circulatory failure, 1938, 18 86

HASTINGS, A B *see* BUCHANAN, J MHATCH, T F *see* MACHLE, WHAWKINS, W B *see* MCKEE, F W

HEAD

- isolated, perfusion and revival, 1950, 30 376

HEAD'S DUALISTIC THEORY

- itching, 1941, 21 360

HEALTH

- organic chemical industrial hazards, 1942, 22 170

HEARING

- theory, 1938, 18 59

HEART

- adrenal insufficiency, 1944, 24 111
- adrenocortical hormones and, in stress, 1950, 30 294
- amino acids in, 1949, 29 254
- anatomical variations, 1947, 27 415
- anatomy, electrocardiogram, 1947, 27 415
- of coronary circulation, 1946, 26 28
- androgens, 1937, 17 202
- arthropod, innervation, 1946, 26 449
- barbiturates, 1939, 19 474
- embryonic, electrical recordings from, 1949, 29 41
- experimental preparations, 1946, 26 33
- fetal, silicon of, 1938, 18 334
- formation of primary regions, 1949, 29 32
- function, venous pressure, 1950, 30 13
- glycogen of, 1936, 16 597
- growth in rats, 1947, 27 81
- in anaphylaxis, 1941, 21 574
- in diving mammals, 1939, 19 126
- inhalation anesthesia, 1941, 21 324
- intraventricular injection of acetylcholine, 1945, 25 600
- isolated, body temperature and drug action, 1946, 26 253
- minute volume in fetus, 1936, 16 106
- myocardial depression in shock, 1942, 22 112
- nicotinic acid of, 1940, 20 264
- nucleic acids, 1936, 16 301
- oxygen consumption, cytochrome c 1951, 31 417
- physiology, electrocardiogram, 1947, 27 415
- rheumatic lesions, allergic basis, 1950, 30 306
- silica of, 1938, 18 334
- sources of electric currents in, 1947, 27 405
- strength-duration curve, 1936, 16 409
- syncytial character, 1947, 27 403
- work, in fetus, 1936, 16 109
- veratrum alkaloids and, 1946, 26 397, 1946, 26 403

HEART AURICLE

- acetylcholine, 1950, 30 178
- cholinesterase in, 1951, 31 337
- oxygen consumption, 1936, 16 603
- proguanil antagonism to acetylcholine, 1950, 30 178
- reflexes from, respiration, 1944, 24 329

HEART BEAT

- embryos, 1949, 29 31
- pace making center, 1949, 29 38

- physiology, 1951, 31 188
temporary interruption of flow, 1951, 31 196
- HEPATIC DISEASE**
17-ketosteroids, 1950, 30 365
plasma proteins, 1947, 27 631
- HEPATITIS**
coproporphyrin, 1947, 27 483
vitamin A fluorescence in liver, 1944, 24 214
- HEPTYLIC ACID**
growth response of plant-like flagellates to, 1941, 21 3
- HEREDITY**
differentiation, 1941, 21 502
gene as unit, 1941, 21 487
leukemia, 1946, 26 49
non Mendelian, 1941, 21 494
obesity, 1944, 24 40
of blood groups, 1944, 24 445
of blood variations, 1944, 24 445
theories of dominance and factor interaction, 1941, 21 514
- HERMAPHRODITISM**
male, pseudo-, 17-ketosteroids, 1950, 30 356
true, 17-ketosteroids, 1950, 30 356
- HERMIDIN**
oxidation reduction potentials, 1939, 19 197
- HERRIN, R. C.** Tests for kidney function, 1941, 21 529
- HERTZ, R.** Biotin and the avidin biotin complex, 1946, 26 479
- HETERAUCYSIS**
discussion, 1947, 27 79
- HETEROCYCLIC ACIDS**
antagonism to p-aminobenzoic acid, 1947, 27 312
- HETRAMINE**
minimum effective doses, 1947, 27 552
pharmacology, 1947, 27 545
- HEUSNER, A. P.** Yawning and associated phenomena, 1946, 26 156
- HEXACHLORETHANE**
industrial health hazard, 1942, 22 176
- HEXACHLOROCYCLOHEXANE**
antagonism to inositol, 1947, 27 313
- HEXAETHYLTETRAPHOSPHATE**
formula and trivial name, 1951, 31 328
- HENESTROL**
S/L ratio, 1948, 28 25
- HEXOSE PHOSPHATES**
di-, inhibition of brain metabolism, 1939, 19 173
oxidation in brain, 1939, 19 166
mono-, of muscle and plasma, 1936, 16 455
- HENOSEMONOPHOSPHATE COENZYME** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- HEYMANS, C.** Survival and revival of nervous tissues, 1950, 30 375
- HIBERNATION**
drugs during, 1946, 26 251
- HIMANTARIUM**
velocity of conduction in ganglionic cords, 1946, 26 339
- HIPPOTAMUS**
duration of dives by, 1939, 19 115
- HIPPURIC ACID**
formation, glutathione, 1940, 20 240
- HIRSCH, E. F. AND WEINHOUSE, S.** The role of the lipids in atherosclerosis, 1943, 23 185
- HISAW, F. L.** Development of Graafian follicle and ovulation, 1947, 27 95
- HISTAMINE**
acetylcholine and nor-epinephrine, 1950, 30 190
adrenal cortex, 1944, 24 108
anaphylactic poison, 1941, 21 568
anaphylaxis, 1941, 21 581
antagonism by antihistamines, 1947, 27 551
antagonistic structural analogs, 1947, 27 312
blood vessels, 1950, 30 184
of rabbit ear, 1950, 30 186
capillary permeability, 1947, 27 457
cerebral circulation, 1936, 16 551
chemotaxis, 1946, 26 328
gastrin, 1950, 30 44
in anaphylactic rabbit, 1941, 21 577
guinea pig, 1941, 21 574
intestinal secretion, 1941, 21 55
itching, 1941, 21 373
local hormone, 1950, 30 177
smooth muscle, 1944, 24 473
sympathetic vasodilator fibres, 1938, 18 144
- HISTIDINE**
demonstration of essentially, 1938, 18 113
microbiological assay, 1949, 29 247
- HISTIDINURIA**
inborn error of metabolism, 1948, 28 118
- HISTIOCYTES**
cholesterol formation, 1946, 26 300
- HISTOCHEMISTRY**
contributions to physiology, 1946, 26 1
method of detecting inorganic substances, 1941, 21 243
of enzymes, 1941, 21 247
recent developments, 1941, 21 242
- HISTOGENESIS**
tumor extracts, 1943, 23 103
- HISTOLOGY**
general staining methods, 1946, 26 1
- HISTORADIOGRAPHY**
histochemistry, 1941, 21 246
- HISTOSPECTROSCOPY**
histochemistry, 1941, 21 247
- HÖBER, R.** Membrane permeability to solutes, 1936, 16 52
- HODGKINS DISEASE**
plasma proteins, 1947, 27 632
porphyrins, 1940, 20 451
- HOLMES, E.** The effect of toxemia on metabolism, 1939, 19 439
- HOLOENZYME** *see* HOLOZYMASE
- HOLOZYMASE**
definition, 1939, 19 356
- HOLTER, H. AND LINDERSTRÖM LANG, K.** Micro-methods and enzyme distribution, 1951, 31 432
- HOMARUS**
velocity of nerve conduction in, 1946, 26 340
- HOMATROPINE**
parasympathetic nervous system, 1937, 17 381
site of action, 1937, 17 392

- HEMATOCRIT**
venous and arterial in acclimatized and unacclimatized subjects, 1943, 23 177
- HEMATOPOIESIS**
duodenal secretion, 1941, 21 41
- HEMATOPOIETIC TISSUE**
in tissue culture, 1937, 17 601
- HEMATOPORPHYRIN IX** see PORPHYRINS
- HEME ENZYMES**
metallic ions, 1950, 30 402
- HEMIN**
definition, 1939, 19 187
extra medullary biosynthesis, 1951, 31 382
oxidation reduction potentials, 1939, 19 193
- HEMIN SYSTEM**
spiographis oxidation reduction potentials, 1939, 19 193
- HEMOCHROMATOSIS**
iron, 1951, 31 369
- HEMOCHROMOGEN**
definition, 1939, 19 187
oxidation reduction potentials, 1939, 19 193
- HEMOCHROMOGEN SYSTEMS**
oxidation reduction potentials, 1939, 19 193
- HEMOFLAGELLATES**
nutrition, 1941, 21 8
- HEMOGLOBIN**
acclimatization, 1943, 23 173
acid base balance, 1938, 18 509
affinity for carbon monoxide, 1940, 20 313
aggregation hypothesis of action, 1938, 18 502
bile pigment, 1951, 31 347
clinical significance of changes, 1940, 20 2
concentration, 1951, 31 352
daily loss, 1951, 31 348
diurnal variation, 1949, 29 13
formation, 1940, 20 38
functional capacity, 1951, 31 352
damage to, 1951, 31 352
growth, 1951, 31 354
growth, sex, 1951, 31 354
in vitro synthesis, 1951, 31 378
inanition, 1951, 31 349
intracellular, state, 1951, 31 383
level, 1951, 31 347
life span, metabolism, 1951, 31 378
loss due to menstruation, 1937, 17 33
maintenance of level, 1951, 31 347, 1951, 31 394
mountain sickness, 1943, 23 173
of denervated muscle, 1939, 19 24
of fetus, 1936, 16 127
of infants, 1939, 19 429
of muscle, 1939, 19 503
affinity for oxygen, 1939, 19 516
age, activity, 1939, 19 505
carbon monoxide, 1951, 31 353
catalysis, 1939, 19 514
CO/O₂ affinity and spectral "span," 1939, 19 512
kinetic experiments, 1939, 19 512
metabolism, 1951, 31 350, 1951, 31 411
molecular weight, 1939, 19 512
occurrence, 1939, 19 504
of urine, 1939, 19 506
oxygen transport, 1939, 19 513
physical chemistry, 1939, 19 510
properties, 1939, 19 507
role, 1939, 19 513
storage, 1939, 19 515
storage of oxygen, 1939, 19 518
of urine, 1942, 22 19
oxygen combination, theories, 1938, 18 502
pathological, 1951, 31 414
properties, 1939, 19 507
protein nutrition, 1951, 31 390
renal threshold, 1942, 22 24
synthesis of component parts, 1940, 20 39
tubular reabsorption, 1942, 22 26
turnover, sex, growth, 1951, 31 356
venous and arterial blood in acclimatized and unacclimatized subjects, 1943, 23 177
- HEMOLYSINS**
inactivation, 1937, 17 468
- HEMOLYSIS**
amboceptor-complement systems, 1936, 16 41
complex systems, 1936, 16 40
hypotonic, 1936, 16 20
inhibition and acceleration, 1936, 16 35
kinetics, 1936, 16 19
resistance series, 1936, 16 38
simple, plasma, serum, 1936, 16 35
systems, 1936, 16 32
snake venom, 1945, 25 160
- HEMOLYTIC JAUNDICE**
porphyrins, 1940, 20 447
- HEMOPHILIA**
failure to respond to vitamin K, 1941, 21 201
inheritance, 1944, 24 457
- HEMORRHAGE**
gastrointestinal, urinary coproporphyrin, 1947, 27 486
potassium, 1940, 20 394
shock, 1942, 22 113
- HEMOSIDERIN**
iron storage, 1951, 31 363
- HENDERSON, V E AND ROEPKE, M H.** Drugs affecting parasympathetic nerves, 1937, 17 373
- HEPARIN**
action, 1944, 24 299
anticoagulant in vivo, 1944, 24 297
antiproteolytic action, 1944, 24 300
antithrombin action, 1944, 24 299
chemistry, 1944, 24 298
inhibition of hyaluronidase, 1947, 27 344
localization in cells, 1941, 21 250
physiology, 1944, 24 303
platelets, 1944, 24 301
standardization, 1944, 24 303
- HEPATIC ARTERY**
antibiotics following ligation, 1951, 31 197
gross anatomy, 1951, 31 189
ligation, 1951, 31 188
arterioportal anastomosis, 1951, 31 198
multiple stage ligation, 1951, 31 189

- physiology, 1951, 31 188
temporary interruption of flow, 1951, 31 196
- HEPATIC DISEASE**
17-ketosteroids, 1950, 30 365
plasma proteins, 1947, 27 631
- HEPATITIS**
coproporphyrin, 1947, 27 483
vitamin A fluorescence in liver, 1944, 24 214
- HEPTYLIC ACID**
growth response of plant like flagellates to, 1941, 21 3
- HEREDITY**
differentiation, 1941, 21 502
gene as unit, 1941, 21 487
leukemia, 1946, 26 49
non Mendelian, 1941, 21 494
obesity, 1944, 24 40
of blood groups, 1944, 24 445
of blood variations, 1944, 24 445
theories of dominance and factor interaction, 1941, 21 514
- HERMAPHRODITISM**
male, pseudo-, 17-ketosteroids, 1950, 30 356
true, 17-ketosteroids, 1950, 30 356
- HERMIDIN**
oxidation reduction potentials, 1939, 19 197
- HERRIN, R. C.** Tests for kidney function, 1941, 21 529
- HERTZ, R.** Biotin and the avidin biotin complex, 1946, 26 479
- HETERAUVESIS**
discussion, 1947, 27 79
- HETEROCYCLIC ACIDS**
antagonism to p-aminobenzoic acid, 1947, 27 312
- HETRAMINE**
minimum effective doses, 1947, 27 552
pharmacology, 1947, 27 545
- HEUSNER, A. P.** Yawning and associated phenomena, 1946, 26 156
- HEXACHLORETHANE**
industrial health hazard, 1942, 22 176
- HEXACHLOROCYCLOHEXANE**
antagonism to inositol, 1947, 27 313
- HEXAETHYLTETRAPHOSPHATE**
formula and trivial name, 1951, 31 328
- HEXESTROL**
S/L ratio, 1948, 28 25
- HEXOSE PHOSPHATES**
di, inhibition of brain metabolism, 1939, 19 173
oxidation in brain, 1939, 19 166
mono-, of muscle and plasma, 1936, 16 455
- HEXOSEMONOPHOSPHATE COENZYME** *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE
- HEYMANS, C.** Survival and revival of nervous tissues, 1950, 30 375
- HIBERNATION**
drugs during, 1946, 26 251
- HIMANTARIUM**
velocity of conduction in ganglionic cords, 1946, 26 339
- HIPPOTAMUS**
duration of dives by, 1939, 19 115
- HIPPUIC ACID**
formation, glutathione, 1940, 20 240
- HIRSCH, E. F. AND WEINHOUSE, S.** The role of the lipids in atherosclerosis, 1943, 23 185
- HISAW, F. L.** Development of Graafian follicle and ovulation, 1947, 27 95
- HISTAMINE**
acetylcholine and nor-epinephrine, 1950, 30 190
adrenal cortex, 1944, 24 108
anaphylactic poison, 1941, 21 568
anaphylaxis, 1941, 21 581
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antagonistic structural analogs, 1947, 27 312
blood vessels, 1950, 30 184
of rabbit ear, 1950, 30 186
capillary permeability, 1947, 27 457
cerebral circulation, 1936, 16 551
chemotaxis, 1946, 26 328
gastrin, 1950, 30 44
in anaphylactic rabbit, 1941, 21 577
guinea pig, 1941, 21 574
intestinal secretion, 1941, 21 55
itching, 1941, 21 373
local hormone, 1950, 30 177
smooth muscle, 1944, 24 473
sympathetic vasodilator fibres, 1938, 18 144
- HISTIDINE**
demonstration of essentially, 1938, 18 113
microbiological assay, 1949, 29 247
- HISTIDINURIA**
inborn error of metabolism, 1948, 28 118
- HISTIOCYTES**
cholesterol formation, 1946, 26 300
- HISTOCHEMISTRY**
contributions to physiology, 1946, 26 1
method of detecting inorganic substances, 1941, 21 243
of enzymes, 1941, 21 247
recent developments, 1941, 21 242
- HISTOGENESIS**
tumor extracts, 1943, 23 103
- HISTOLOGY**
general staining methods, 1946, 26 1
- HISTORADIOGRAPHY**
histochemistry, 1941, 21 246
- HISTOSPECTROSCOPY**
histochemistry, 1941, 21 247
- HÖBER, R.** Membrane permeability to solutes, 1936, 16 52
- HODGKINS DISEASE**
plasma proteins, 1947, 27 632
porphyritins, 1940, 20 451
- HOLMES, E.** The effect of toxæmia on metabolism, 1939, 19 439
- HOLOENZYME** *see* HOLOZYMASE
- HOLOZYMASE**
definition, 1939, 19 356
- HOLTER, H. AND LINDERSTRÖM-LANG, K.** Micro-methods and enzyme distribution, 1951, 31 432
- HOMARUS**
velocity of nerve conduction in, 1946, 26 340
- HOMATROPINE**
parasympathetic nervous system, 1937, 17 381
site of action, 1937, 17 392

HOMEOSTASIS

- adrenal cortex, 1950, 30 241
- definition, 1951, 31 347
- imperfection, 1951, 31 423

HOMEOTHERMS

- C N S depressants, 1946, 26 258
- C N S stimulants, 1946, 26 257
- digitalis, and body temperature, 1946, 26 254
- drug action, 1946, 26 249
- insulin action, 1946, 26 264
- physiological effects of temperature, 1946, 26 248

HOMOCOLINE *see* CHOLINE COMPOUNDS**HOMOGENTISIC ACID**

- oxidation reduction potentials, 1939, 19 197

HOMOSEXUALITY

- hormones, 1947, 27 284

HONEYBEE

- poisoning by, 1945, 25 149

HORMONES

- achromotrichia, 1948, 28 376
- as antigens, 1941, 21 596
- economy of muscular exercise, 1936, 16 271
- exophthalmos, 1949, 29 272
- invertebrate, influence on vertebrates, 1941, 21 403
- local, motor and inhibitor effects, 1950, 30 177
- of gastrointestinal tract, 1950, 30 33
- plant growth, 1938, 18 524
- protein-sparing, 1951, 31 475
- urea clearance, 1941, 21 535
- vertebrate, influence on invertebrates, 1941, 21 402
- wound healing, 1936, 16 384

HORSE

- adrenal glands and gonadectomy, 1945, 25 211
- anaphylaxis, 1941, 21 580
- anesthetic dose, 1939, 19 496
- bacteriology of liver, 1951, 31 194
- excretion of chromoprotein, 1951, 31 387
- experimental exophthalmos, 1949, 29 261
- hemoglobin, myoglobin and cytochrome c, 1951, 31 351
- insulin of pancreas, 1944, 24 413
- oxygen consumption of tissues and cytochrome c, 1951, 31 418
- selenium poisoning, 1943, 23 312
- sympathetic nerve, acetylcholine in, 1946, 26 371
- urinary androgens, 1937, 17 165

HOUSSAY PHENOMENON

- theories, 1938, 18 16

HORTENSTINE, J C *see* LANDIS, E M

- HUFF, C G Immunity in invertebrates, 1940, 20 68
- HUGGETT, A St G Nutrition of fetus, 1941, 21 438
- HUGGINS, C Composition of bone and function of bone cell, 1937, 17 119

- , Physiology of prostate gland, 1945, 25 281

HUMIDITY

- insensible loss of water, 1942, 22 4
- olfactory sense in insects, 1948, 28 231

HYALURONIC ACID

- biological significance, 1947, 27 335
- chemistry, 1947, 27 335
- degradation by hyaluronidase, 1947, 27 341
- in animal physiology and pathology, 1947, 27 350

- occurrence, 1947, 27 335
- of synovial fluid, 1947, 27 352
- of tissues, 1947, 27 352

HYALURONIDASE

- activity, environmental factors, 1947, 27 343
- inhibition, 1947, 27 344
- antiserum, 1947, 27 346
- bacterial, 1947, 27 346
- biological significance, 1947, 27 335
- capillary permeability, 1947, 27 457
- clinical importance, 1947, 27 356
- determination, 1947, 27 338
- fertilization, 1948, 28 209
- in animal body, 1947, 27 354
- in animal physiology and pathology, 1947, 27 350
- occurrence, 1947, 27 338
- substrates, 1947, 27 349

HYDRATION

- antidiuretic hormone, 1945, 25 588

HYDROCARBONS

- aromatic, as industrial health hazards, 1942, 22 178
- carcinogenesis, 1937, 17 93
- detoxication, 1939, 19 324
- halogenated, detoxication, 1939, 19 328

HYDROGEN

- ions, transport, animal cells, 1949, 29 145
- transport, diffusion, 1948, 28 298
- solubility in tissues, 1947, 27 369

HYDROGEN CYANIDE

- bacteriophage, 1936, 16 137
- industrial health hazard, 1942, 22 178

HYDROGEN ION CONCENTRATION

- arterial, metabolic rate ratio in exercise, 1950, 30 234
- autolysis, 1938, 18 177
- carotid, aortic bodies, 1940, 20 134
- change in muscular activity, 1936, 16 478
- chemotaxis, 1946, 26 330
- definition and meaning, 1947, 27 228
- Donnan equilibrium, 1947, 27 234
- hyaluronidase activity, 1947, 27 343
- interphases, 1947, 27 236
- irradiation of proteins, 1936, 16 675
- lactogenic hormone, 1946, 26 581
- means of measuring, 1947, 27 231
- membrane equilibrium, 1947, 27 235
- of human and canine prostatic fluids, 1945, 25 285
- of irradiated protein solutions, 1936, 16 679
- of muscle, 1936, 16 472
- denervation, 1939, 19 18
- of synovial fluid and serum, 1940, 20 284
- of tissue, etiological factor in response to high oxygen tension, 1945, 25 127

HYDROGEN PEROXIDE

- permeability of collodion membranes, 1936, 16 56

HYDROQUINONE

- in avian malaria, 1942, 22 193

3 HYDROXY ACETIOALLOCHOLANOL-17-CIS *see* AN DROSTANEDIOLS**3 HYDROXY ACETIO-ALLO-CHOLANONE-17 *see* AN DROSTERONES** **Δ^4 -3-HYDROXY ACETIO-CHOLENONE 17 *see* ANDROSTERONES**

- HYDROXY ASPARTIC ACID
antagonism to aspartic acid, 1947, 27 312
- HYDROXY-THIAZOLO-PYRIMIDINE
antagonism to hypoxanthine, 1947, 27 313
- HYDROXYACETOACETATE
 α , oxidation in brain, 1939, 19 166
- HYDROXYANDROSTERONE *see* ANDROSTERONES
- β -HYDROXYBUTYRATE
oxidation in brain, 1939, 19 165
proportion to acetoacetate, 1945, 25 408
- HYDROXYDIPHENYL
4-, S/L ratio, (pro-estrogens), 1948, 28 26
- β -HYDROXYETHYLAMMONIUM CHLORIDE
tetra, lipotropic action, 1944, 24 152
- HYDROXYISOPROPYLAMINE
in ergot alkaloids, 1938, 18 306
- β -HYDROXYPHENYL ALANINE
antagonism to phenylalanine, 1947, 27 313
- HYDROXYPROLINE
microbiological assay, 1949, 29 247
- p-HYDROXYPROPRIOPHENONES
S/L ratio, (pro-estrogens), 1948, 28 26
- HYDROXYSTILBENE *see* STILBENE
- HYDROXYTYRAMINE
pressor effects, 1947, 27 150
- HYMENOPTERA
nutritional requirements, 1941, 21 20
- HYOSCINE
for motion sickness, 1949, 29 352
parasympathetic nervous system, 1937, 17 381
site of action, 1937, 17 392
- HYOSCYAMINE
parasympathetic nervous system, 1937, 17 380
site of action, 1937, 17 392
therapy for motion sickness, 1949, 29 353
- HYPERALGESIA
itching, 1941, 21 367
of peripheral neuropathy, 1947, 27 179
- HYPERCHOLESTEREMIA
characteristics, 1946, 26 296
- HYPEREMIA
nucleic acid derivatives, 1936, 16 316
- HYPERGLYCEMIA
caused by alloxan, 1948, 28 319
in toxemia, 1939, 19 444
- HYPERINSULINISM
obesity, 1944, 24 38
- HYPERPARATHYROIDISM
parathyroid extract administration, 1940, 20 549
- HYPERPHAGIA
definition, 1946, 26 549
origin, 1946, 26 557
weight gain, 1946, 26 549
- HYPERPNEA
in muscular exercise, 1944, 24 319
chemical control, 1950, 30 221
- HYPERSENSITIVITY
bacterial, antibody production, 1941, 21 74
immunity, 1941, 21 98
lesions, 1941, 21 79
resistance to infection, 1941, 21 83
symptoms, 1941, 21 78
- HYPERTENSIN *see* ANGIOTONIN
- HYPERTENSIN PRECURSOR *see* HYPERTENSINOGEN
- HYPERTENSINASE
definition, 1947, 27 132
description, 1947, 27 141
properties, 1947, 27 141
unit, 1947, 27 142
- HYPERTENSINOGEN
definition, 1947, 27 132
properties, 1947, 27 136
unit, 1947, 27 137
- HYPERTENSION
adenylic acid, 1936, 16 299
cardiac response, 1941, 21 324
essential, adrenal cortex, 1950, 30 304
chronic, ferritin, 1951, 31 507
DCA, 1950, 30 304
human, similarity to experimental renal, 1947, 27 153
17 ketosteroids, 1950, 30 364
malignant, alleviation, 1946, 26 174
neurogenic mechanism, 1947, 27 128
persistent, pathological changes, 1947, 27 126
renal origin of, 1947, 27 120
sympathomimetic amines as etiological agents, 1946, 26 172
- HYPERTENSION, EXPERIMENTAL, RENAL
aortic depressor nerve section, 1940, 20 161
carotid sinus denervation, 1940, 20 161
cerebral anemia, 1940, 20 164
intracranial pressure, 1940, 20 163
modification, 1940, 20 183
production, 1940, 20 159
renal, 1947, 27 122
bilateral nephrectomy, 1940, 20 168
damage, 1940, 20 171
glomerulonephritis, 1940, 20 166
humoral mechanism, 1947, 27 129
ischemia, 1940, 20 172
kidneys, 1940, 20 165
mechanism of production by ischemia, 1940, 20 174
pathogenesis, 1947, 27 127
renal extracts, 1947, 27 145
renal pressor substance, 1940, 20 178
renin and angiotonin, 1940, 20 186
similarity to human essential, 1947, 27 153
subtotal nephrectomy, 1940, 20 169
urine flow, 1940, 20 168
- HYPERTHYROIDISM
histological changes in anterior pituitary, 1937, 17 571
melanin formation, 1950, 30 121
requirement for vitamin C, 1943, 23 370
vitamin A, carbohydrate, protein metabolism, 1943, 23 358
metabolic rate, 1943, 23 360
weight loss, 1943, 23 356
vitamin B₁ in tissues, 1943, 23 367
vitamin B-complex, caloric intake and weight, 1943 23 364
estrus cycle in, 1943, 23 365

HYPERTHYROIDISM

- liver function, 1943, 23 365
- liver glycogen, 1943, 23 366
- pulse rate, 1943, 23 366
- vitamin C, 1943, 23 371
 - carbohydrate, protein metabolism, 1943, 23 370
 - metabolic rate during, 1943, 23 371
- vitamin D, 1943, 23 373

HYPERTONIC SOLUTIONS

- cerebral blood flow, 1936, 16 554

HYPERVENTILATION

- cerebral blood flow, 1936, 16 557

HYPERVITAMINOSIS

- A, distribution of A in liver, 1944, 24 210
- tissue changes, 1942, 22 239
- D, dentin, 1945, 25 458
- oral structures, 1945, 25 458
- tissue changes, 1942, 22 249

HYPOLYCEMIA

- administration of duodenal extracts, 1950, 30 79
- caused by alloxan, 1948, 28 319
- glutamic acid, 1950, 30 558

HYPOLYNESIA

- reticular formation, 1950, 30 466

HYPOPHYSECTOMY

- adrenal cortex, 1940, 20 493
- carbohydrate metabolism, 1938, 18 12
- development of mammary gland, 1944, 24 344
- insulin sensitivity, 1938, 18 2
- lactation, 1936, 16 506
- pancreatic diabetes, 1938, 18 5

HYPOTHALAMICO-HYPOPHYSIAL TRACT

- anatomy, 1948, 28 141

HYPOTHALAMUS

- adrenotrophic hormone, 1948, 28 165
- diabetogenic hormone, 1948, 28 166
- gonadotrophic hormones, 1948, 28 161
- hypophyseal stalk, 1948, 28 160
- lactogenic hormone, 1948, 28 164
- lesions, energy balance, 1946, 26 548
 - food intake, 1946, 26 548
 - intermediary metabolism, 1946, 26 554
 - localization of, obesity, 1946, 26 546
 - obesity due to, 1944, 24 32, 1946, 26 541
 - spontaneous activity, 1946, 26 551
- neural connections with neurohypophysis, 1948, 28 141
- posterior pituitary, 1945, 25 576
- thyrotrophic hormone, 1948, 28 165

HYPOTHYROIDISM see MYXEDEMA**HYPOTONICITY**

- hemolysis, 1936, 16 22
- Stewart's colorimetric method, 1936, 16 22

HYPONANTHINE

- antagonistic structural analogs, 1947, 27 313

ICSH see LUTEINIZING HORMONE**ILEUM see INTESTINE, SMALL, ileum****ILIAC ARTERIES**

- silica of, 1938, 18 334

IMIDAZOLE

- antagonism to histamine, 1947, 27 312

IMMUNITY

- acquired, in invertebrates, 1940, 20 70
 - with parasitic worms, 1940, 20 469
- allergy, in tuberculosis, 1938, 18 392
- cellular, 1940, 20 74
- fertilization, 1948, 28 180
- humoral, in invertebrates, 1940, 20 79
- inflammation, 1938, 18 366, 1938, 18 382
- in invertebrates, 1940, 20 68
- lack, in bacterial hypersensitivity, 1941, 21 98
- to parasitic worms, cellular phases, 1940, 20 483
 - demonstration 1940, 20 471
 - factors influencing, 1940, 20 472
 - passive transfer, 1940, 20 479

IMPLANTATION

- delay, duration of pregnancy, 1938, 18 583

INANITION

- carbohydrate, fat and nitrogen output, 1951, 31 458
- glycogenesis, 1938, 18 270
- hemoglobin, 1951, 31 349
- insulin of pancreas, 1944, 24 417
- 17 ketosteroids, 1950, 30 360
- leukocyte count, 1943, 23 297
- melanin formation, 1950, 30 112
- oxidation of ingested glucose, 1938, 18 257
- prolonged, metabolism, 1938, 18 264
- protein metabolism, 1938, 18 262
- short, oxidation of ingested glucose, 1938, 18 258
- water balance, 1944, 24 516

INDICATOR METHOD

- microrespiration, 1943, 23 54

INDIGODISULPHATE

- permeability of C N S capillaries to, 1942, 22 128

INDIUM

- industrial hazard, 1945, 25 191

INDOLEACETIC ACID

- antagonistic structural analogs, 1947, 27 313

INDOLEACRYLIC ACID

- antagonism to tryptophan, 1947, 27 314

INDOLETHYLAMINE

- inhibition of brain metabolism, 1939, 19 175

INDUSTRIAL HEALTH

- inorganic hazards, 1945, 25 182

INDUSTRIAL WORKERS

- muscular exercise in, 1936, 16 266

INFANT (HUMAN)

- ascorbic acid in brain, 1939, 19 178
- influence of human and cow's milk on, 1939, 19 422
- mineral metabolism, 1939, 19 415
- premature, iron requirement, 1951, 31 361
- retention of potassium and phosphorus, 1939, 19 428
 - of water, organic foodstuffs and electrolytes, 1939, 19 428
- stores of iron and iron metabolism, 1940, 20 43

INFECTIONS

- adrenal cortex, 1944, 24 108
- bacterial, experimental, treatment with sulfanilamide, 1939, 19 245
- herpetic, vitamin B deficiency, 1945, 25 450
- hypersensitivity, 1941, 21 70
- insulin of pancreas, 1944, 24 416

- radiation response, 1944, 24 232
- urea clearance, 1941, 21 537
- plasma proteins, 1947, 27 629
- urinary coproporphyrins, 1947, 27 487
- INFECTIOUS MONONUCLEOSIS**
 - liver disease, plasma proteins, 1947, 27 631
- INFLAMMATION**
 - accumulation and localization of foreign bodies, 1938, 18 387
 - bacterial invasion, 1938, 18 404
 - calor, physico-chemical basis, 1936, 16 375
 - definition, 1938, 18 366
 - development, 1938, 18 367
 - due to sunburn, 1945, 25 494
 - fixation of foreign substances by, 1938, 18 401
 - of microorganisms at site, 1938, 18 383
 - immunity, 1938, 18 366
 - mechanism of increased capillary permeability, 1938, 18 371
 - migration of leukocytes, 1938, 18 377
 - physico-chemical basis of symptoms, 1936, 16 372
 - pigmentation after, 1950, 30 120
 - rubor, physico-chemical basis, 1936, 16 373
 - thrombosis, 1938, 18 221
- INFRA-RED RAYS**
 - carcinogenesis, 1944, 24 187
 - wound healing, 1936, 16 378
- ING, H. R.** Curariform action of onium salts, 1936, 16 527
- INHIBITORS (METABOLIC)**
 - competitive, definition of, 1945, 25 690
- INJURY POTENTIAL**
 - in large plant cells, 1936, 16 216
- INOSINE**
 - blood pressure, 1936, 16 298
 - triphosphate, heart, 1936, 16 296
- INOSINIC ACID**
 - blood pressure, 1936, 16 298
 - heart, 1936, 16 296
- INOSITOL**
 - antagonistic structural analogs, 1947, 27 313
 - lipotropic action, 1944, 24 158
 - microbiological assay, 1948, 28 258
 - extraction procedure, 1948, 28 271
 - oxidation in brain, 1939, 19 167
- INOSITOLPHOSPHATIDES**
 - characterization, 1946, 26 310
 - chemistry, 1946, 26 281
- INSECTICIDES**
 - acceptable compounds, 1948, 28 249
 - stimulation in relation to chemical and physical properties, 1948, 28 248
 - unacceptable compounds, 1948, 28 249
- INSECTS**
 - acetylcholine of tissues, 1946, 26 371
 - chemoreception, 1948, 28 220
 - common chemical sense, 1948, 28 224
 - contact, 1948, 28 234
 - development, hormonal control, 1941, 21 395
 - folic acid, 1948, 28 79
 - intensity discrimination, 1937, 17 256
 - locomotion, 1946, 26 359
 - methods of investigation, 1948, 28 236
 - neuromuscular system, 1946, 26 465
 - nutrition, 1941, 21 12
 - olfactory sense, 1948, 28 224
 - physiological color changes, 1941, 21 394
 - requirements for growth and reproduction, 1941, 21 21
 - response to feeding experiments, 1948, 28 236
 - natural food, 1948, 28 237
 - odors, 1948, 28 240
 - sex, 1948, 28 240
 - temperature and humidity, 1948, 28 240
 - sensitivity in taste, 1948, 28 243
 - spiracles, loss of water by, 1938, 18 40
- INSULIN**
 - acetylcholine metabolism, 1945, 25 631
 - action, 1947, 27 39
 - dosage, 1947, 27 49
 - mode of, 1941, 21 180
 - on protein metabolism, 1947, 27 66
 - site of, 1947, 27 44
 - administration problems in diabetes, 1949, 29 75
 - antagonism to epinephrine, 1947, 27 68
 - biochemical mechanism, 1947, 27 60
 - blood sugar level, 1947, 27 39
 - body temperature, 1946, 26 263
 - cardiac glycogen, 1936, 16 598
 - cardiac metabolism, 1936, 16 615
 - glucose oxidation, in eviscerated animals, 1941, 21 178
 - tolerance, 1938, 18 278
 - fat, glycogen deposition, 1948, 28 458
 - glycogenolytic action, 1947, 27 42
 - hypersensitivity to, 1938, 18 2
 - hypothalamic obesity, 1946, 26 556
 - immediate fate of glucose, 1947, 27 57
 - long-acting, 1949, 29 75
 - metabolism of fructose and galactose, 1936, 16 200
 - oral, 1949, 29 77
 - requirement of diabetic vs depancreatized man, 1949, 29 53
 - resistance, toxemia, 1939, 19 443
 - sensitivity, toxemia, 1939, 19 455
 - stimulation of secretion, 1944, 24 436
 - substitutes, 1949, 29 78
 - synthesis, and metabolism of beta cells 1949, 29 66
 - cysteine, 1949, 29 61
 - glutathione, 1949, 29 66
 - tolerance to fructose, galactose, 1936, 16 201
 - zinc in, 1949, 29 379
- INSULIN (OF PANCREAS)**
 - age, 1944, 24 414
 - anesthesia, 1944, 24 415
 - determination of level, 1944, 24 410
 - diet, 1944, 24 417
 - distribution, 1944, 24 415
 - endocrines, 1944, 24 422
 - fat, 1944, 24 418
 - in human diabetes, 1949, 29 53
 - inaction, 1944, 24 417
 - infection, 1944, 24 416
 - insulin injections, 1944, 24 432
 - protein, 1944, 24 418
 - seasonal variation, 1944, 24 415

HYPERTHYROIDISM

- liver function, 1943, 23 365
- liver glycogen, 1943, 23 366
- pulse rate, 1943, 23 366
- vitamin C, 1943, 23 371
- carbohydrate, protein metabolism, 1943, 23 370
- metabolic rate during, 1943, 23 371
- vitamin D, 1943, 23 373

HYPERTONIC SOLUTIONS

- cerebral blood flow, 1936, 16 554

HYPERVENTILATION

- cerebral blood flow, 1936, 16 557

HYPERVITAMINOSIS

- A, distribution of A in liver, 1944, 24 210
- tissue changes, 1942, 22 239
- D, dentin, 1945, 25 458
- oral structures, 1945, 25 458
- tissue changes, 1942, 22 249

HYPOLYCEMIA

- administration of duodenal extracts, 1950, 30 79
- caused by alloxan, 1948, 28 319
- glutamic acid, 1950, 30 558

HYPOKINESIA

- reticular formation, 1950, 30 466

HYPOPHYSECTOMY

- adrenal cortex, 1940, 20 493
- carbohydrate metabolism, 1938, 18 12
- development of mammary gland, 1944, 24 344
- insulin sensitivity, 1938, 18 2
- lactation, 1936, 16 506
- pancreatic diabetes, 1938, 18 5

HYPOTHALAMICO-HYPOPHYSIAL TRACT

- anatomy, 1948, 28 141

HYPOTHALAMUS

- adrenotropic hormone, 1948, 28 165
- diabetogenic hormone, 1948, 28 166
- gonadotropic hormones, 1948, 28 161
- hypophyseal stalk, 1948, 28 160
- lactogenic hormone, 1948, 28 164
- lesions, energy balance 1946, 26 548
 - food intake, 1946, 26 548
 - intermediary metabolism, 1946, 26 554
 - localization of, obesity, 1946, 26 546
 - obesity due to, 1944, 24 32, 1946, 26 541
 - spontaneous activity, 1946, 26 551
- neural connections with neurohypophysis, 1948, 28 141
- posterior pituitary, 1945, 25 576
- thyrotrophic hormone, 1948, 28 165

HYPOTHYROIDISM *see* MYXEDEMA**HYPOTOXICITY**

- hemolysis, 1936, 16 22
- Stewart's colorimetric method, 1936, 16 22

HYPOLANTHINE

- antagonistic structural analogs, 1947, 27 313

ICSH *see* LUTEINIZING HORMONE**ILEUM** *see* INTESTINE, SMALL, ileum**ILIAC ARTERIES**

- silica of, 1938, 18 334

IMIDAZOLE

- antagonism to histamine, 1947, 27 312

See page iii for guide to use of index

IMMUNITY

- acquired, in invertebrates, 1940, 20 70
 - with parasitic worms, 1940, 20 469
- allergy, in tuberculosis, 1938, 18 392
- cellular, 1940, 20 74
- fertilization, 1948, 28 180
- humoral, in invertebrates, 1940, 20 79
- inflammation, 1938, 18 366, 1938, 18 382
- in invertebrates, 1940, 20 68
- lack, in bacterial hypersensitivity, 1941, 21 98
- to parasitic worms, cellular phases, 1940, 20 483
 - demonstration 1940, 20 471
 - factors influencing, 1940, 20 472
 - passive transfer, 1940, 20 479

IMPLANTATION

- delay, duration of pregnancy, 1938, 18 583

INANITION

- carbohydrate, fat and nitrogen output, 1951, 31 458
- glycogenesis, 1938, 18 270
- hemoglobin, 1951, 31 349
- insulin of pancreas, 1944, 24 417
- 17-ketosteroids, 1950, 30 360
- leukocyte count, 1943, 23 297
- melanin formation, 1950, 30 112
- oxidation of ingested glucose, 1938, 18 257
- prolonged, metabolism, 1938, 18 264
- protein metabolism, 1938, 18 262
- short, oxidation of ingested glucose, 1938, 18 258
- water balance, 1944, 24 516

INDICATOR METHOD

- microrespiration, 1943, 23 54

INDIGODISULPHATE

- permeability of C N S capillaries to, 1942, 22 128

INDIUM

- industrial hazard, 1945, 25 191

INDOLEACETIC ACID

- antagonistic structural analogs, 1947, 27 313

INDOLEACRYLIC ACID

- antagonism to tryptophan, 1947, 27 314

INDOLETHYLAMINE

- inhibition of brain metabolism, 1939, 19 175

INDUSTRIAL HEALTH

- inorganic hazards, 1945, 25 182

INDUSTRIAL WORKERS

- muscular exercise in, 1936, 16 266

INFANT (HUMAN)

- ascorbic acid in brain, 1939, 19 178
- influence of human and cow's milk on, 1939, 19 422
- mineral metabolism, 1939, 19 415
- premature, iron requirement, 1951, 31 361
- retention of potassium and phosphorus, 1939, 19 428
 - of water, organic foodstuffs and electrolytes, 1939, 19 428
- stores of iron and iron metabolism, 1940, 20 43

INFECTIONS

- adrenal cortex, 1944, 24 108
- bacterial, experimental, treatment with sulfanilamide, 1939, 19 245
- herpetic, vitamin B deficiency, 1945, 25 450
- hypersensitivity, 1941, 21 70
- insulin of pancreas, 1944, 24 416

- gastric, 1948, 28 444
 intestinal, 1948, 28 111
 allocation in body, 1951, 31 362
 chronic negligible blood loss, 1951, 31 359
 dangers of overload, 1951, 31 369
 dietary, hemoglobin formation, 1940, 20 44
 excesses, 1951, 31 369
 excretion, ferritin, 1951, 31 498
 ferritin synthesis, 1951, 31 494
 ferrous, activation of arginase, 1950, 30 397
 localization in nucleus, 1941, 21 254
 location in ferritin, 1951, 31 491
 mechanism of action, 1940, 20 47
 melanin formation, 1950, 30 120
 metabolic pool, 1951, 31 364
 metabolism, 1951, 31 361
 cereals, 1944, 24 268
 in infants, 1939, 19 429, 1940, 20 43
 migration, 1951, 31 367
 nutritional requirement, 1951, 31 357
 of white, enriched white, and whole wheat flours, 1944, 24 272
 pre-natal stores, 1940, 20 43
 presence in bone marrow, 1940, 20 40
 requirement, for hemoglobin maintenance, 1951, 31 349
 growth, sex, 1951, 31 358
 retention in infants, 1939, 19 431
 storage, ferritin, 1951, 31 496
 stored in ferritin and hemosiderin, 1951, 31 363
 tissue and storage, 1940, 20 43
 transport, 1940, 20 46
 siderophyllin, 1951, 31 370
 valence and absorbability, 1951, 31 369
IRON-PORPHYRIN COMPOUNDS
 cellular respiration, 1939, 19 187, 1939, 19 215
IRRADIATED ERGOSTEROL
 overdosage, organic phosphates of blood, 1941, 21 430
IRRADIATION
 bacteriophage, 1936, 16 135
 of proteins and amino acids, 1936, 16 671
IRRITANTS
 carcinogenesis, 1944, 24 182
IRVING, L. Respiration in diving mammals, 1939, 19 112
ISAACS, R. Formation and destruction of red blood cells, 1937, 17 291
ISOAMYL NITRATE
 industrial health hazard, 1942, 22 177
ISOANDROSTERONE *see* ANDROSTERONES
ISOBUTANE *see* BUTANE
ISOBUTYL ALCOHOL *see* BUTYL ALCOHOL
ISOBUTYLENE *see* γ -BUTYLENE
ISOBUTYRIC ACID
 growth response of plant like flagellates to, 1941, 21 3
ISOCAPROIC ACID *see* CAPROIC ACID
ISOCHRONISM
 experimental support, 1936, 16 418
 Lapicque's law, 1936, 16 411
ISOCITRIC ACID
 decarboxylation, 1951, 31 93
ISODIHYDROANDROSTERONE *see* ANDROSTANEDIOLS
ISOLEUCINE
 antagonistic structural analogs, 1947, 27 313
 essential amino acid, 1938, 18 125
 microbiological assay, 1949, 29 247
 plus valine, antagonistic structural analogs, 1947, 27 313
ISONICOTINIC ACID *see* NIACIN, Iso-
ISONITRILES
 industrial health hazards, 1942, 22 178
ISOPROPYL ALCOHOL *see* PROPYL ALCOHOL, Iso
2 - ISOPROPYL - 5 - METHYLPHENOXY - ETHYLDIETHYL - AMINE *see* F 929
ISOPTERA
 nutritional requirements, 1941, 21 15
ISORIBOFLAVIN *see* RIBOFLAVIN, Iso
ISOTOPES
 general discussion, 1940, 20 219
 in organic linkage, stability and exchangeability, 1940, 20 220
 intermediary metabolism, 1940, 20 218
 principles of analysis in organic compounds, 1940, 20 225
 purification of compounds containing, 1940, 20 226
 temporarily radioactive, therapeutic use, 1944, 24 225
ITCHING
 central origin, 1941, 21 376
 chemical mediation, 1941, 21 373
 diseases of skin, 1941, 21 371
 electrophysiological analysis, 1941, 21 365
 experimental production, 1941, 21 358
 hyperalgesia, 1941, 21 367
 physiology, 1941, 21 357
 protopathic pain, 1941, 21 361
 relation to pain, 1941, 21 359
 therapeutics, 1941, 21 378
 tickling, 1941, 21 363
 vasomotor action, 1941, 21 372
JACOBSEN, C. F. Effects of extirpations on higher brain processes, 1939, 19 303
JANUS GREEN
 bacteriophage, 1936, 16 138
JAUNDICE
 bile salt production, 1941, 21 478
 obstructive, hemorrhage, 1941, 21 199
JELLYFISH
 poisoning by, 1945, 25 148
JENNINGS, M. A. *see* FLOREY, H. W.
JERVINE
 formula, optical rotation and melting point, 1946, 26 385
JOHNSTON, MARGARET W. *see* NEWBURGH, L. H.
JOINTS
 absorption from cavity, 1950, 30 157
 anatomy, 1940, 20 272
 articular capsule, 1950, 30 156
 articular function, 1940, 20 275
 as functioning units, 1950, 30 150
 cartilage, 1940, 20 276

INSULIN (OF PANCREAS)

- significance of level, 1944, 24 409
- sugar, 1944, 24 418
- tumors, 1944, 24 416
- vitamin deficiency, 1944, 24 421
- zinc, 1944, 24 417

INTENSITY DISCRIMINATION *see* **VISION****INTERCELLULAR CEMENT**

- capillary permeability, 1947, 27 436
- chemical nature, 1943, 23 83

INTERSTITIAL CELL-STIMULATING HORMONE *see* **LUTEINIZING HORMONE****INTERSTITIAL FLUID**

- water exchange, 1944, 24 494

INTESTINAL FLAGELLATES

- nutrition, 1941, 21 10

INTESTINAL SECRETION

- amounts secreted, 1941, 21 41
- anoxia, 1941, 21 321
- composition, 1941, 21 37
- control, 1941, 21 39
- drugs, 1941, 21 54
- enzymes, 1941, 21 48
- functions, 1941, 21 57
- hormonal control, 1941, 21 55
- lipids in, 1941, 21 47
- nervous control, 1941, 21 52
- nitrogen in, 1941, 21 47

INTESTINE

- acetylcholine, 1950, 30 182
- action potentials, 1944, 24 481
- cells, fat changes in, 1946, 26 113
 - passage of fat through membrane, 1946, 26 110
- circulatory failure, 1938, 18 94
- emulsification of fat, 1946, 26 103
- ergonovine, 1938, 18 316
- large, morphine, 1937, 17 633
- motility, hormonal control, 1950, 30 77
 - nucleic acids, 1936, 16 306
- mucosa, cholinesterase in, 1951, 31 337
- muscle, antihistamine, 1947, 27 553
 - cholinesterase in, 1951, 31 337
 - high oxygen tension, 1945, 25 103
- peristalsis, neurohypophysis, 1948, 28 152
- vasodilator action of epinephrine, 1938, 18 143
 - fibres in, 1938, 18 149
- vitamin A distribution, 1944, 24 218

INTESTINE, SMALL

- anatomy, 1941, 21 43
- duodenum, secretion, functions, 1941, 21 42
 - hematopoiesis, 1941, 21 41
- silica of, 1938, 18 334
- ileum, silica of, 1938, 18 334
- methods of studying, 1941, 21 44
- morphine and, 1937, 17 631
- motility, anoxia and, 1941, 21 313
 - morphine, 1937, 17 626

INTRACELLULAR FLUID

- control of, 1944, 24 497

INVERTASE

- in intestinal secretion, 1941, 21 50

See page iii for guide to use of index

INVERTEBRATES

- activity rhythms, 1949, 29 4
- cephalic dominance, 1946, 26 357
- endocrine glands, 1941, 21 383
- immunity, 1940, 20 68
- locomotion, 1946, 26 348
- nutrition, 1941, 21 1
- onium salts and, 1936, 16 529

IODIDES

- mode of action on thyroid, 1950, 30 196
- permeability of C N S capillaries, 1942, 22 134

IODINE

- cabbage-diet goiter, 1950, 30 523
- compounds, in organisms, 1940, 20 347
- experimentally produced goiter, 1950, 30 531
- fasting excretion, 1940, 20 371
- metabolism, in infants, 1939, 19 433
- naturally occurring organic compounds, 1940, 20 347
- of blood, administration of iodine compounds, 1940, 20 358
 - BMR, 1940, 20 359
 - exercise, 1940, 20 358
 - fasting, 1940, 20 357
 - physiological range, 1940, 20 353
 - thyroxin derivatives, 1940, 20 359
- of body, fluctuations, 1940, 20 345
- of cerebrospinal fluid, 1940, 20 352
- of feces, 1940, 20 370
- of lymph, 1940, 20 352
- of respired air, 1940, 20 352
- of saliva, 1940, 20 353
- of sweat, 1940, 20 353
- of urine, 1940, 20 369
- permeability of skin, 1946, 26 532
- radio-active, formation of thyroxin, 1950, 30 203
- reserve in thyroid, 1940, 20 348
- storage after administration, 1940, 20 350

IODININ

- antagonism to vitamin K, 1947, 27 314

iodo-ACETONE

- industrial health hazard, 1942, 22 176

iodoACETATE

- cardiac metabolism, 1936, 16 608
- inhibition of brain metabolism, 1939, 19 176
- phosphorus metabolism, 1936, 16 623

IONS

- active transport, 1949, 29 128
- brain respiration, 1939, 19 167
- dynamics of transfer, 1951, 31 303
- gastric absorption, 1948, 28 445
- metabolism of fetus and placenta, 1941, 21 452
- permeability of membranes, 1936, 16 65, 1936, 16 86
- transport across cellular membranes, 1949, 29 127
- uptake in characeae, 1949, 29 151

IPRAL

- anesthetic dose in various species, 1939, 19 496

IRIS

- high oxygen tension, 1945, 25 103

IRON

- absorption, 1951, 31 365
- control, 1951, 31 368
- ferritin, 1951, 31 496

- glomerulus, passage of hemoglobin through, 1942, 22 21
- growth in rats, 1947, 27 82
- histochemical studies, 1941, 21 258
- hypertension, 1940, 20 165, 1947, 27 120
- damage, 1940, 20 171
- glomerulonephritis, 1940, 20 166
- internal environment of newborn, 1948, 28 331
- ischemia, hypertension, 1940, 20 172
- pathology, 1940, 20 173
- production, 1940, 20 172
- lesions in arsenamine poisoning, 1939, 19 464
- nicotinic acid, 1940, 20 264
- pathology of high oxygen breathing, 1945, 25 27
- physical factors in activity, 1937, 17 408
- pressor substance from, 1940, 20 178
- regulation of body fluid, 1944, 24 504
- silica of, 1938, 18 334
- site of detoxication in animals, 1939, 19 344
- threshold, for hemoglobin, 1942, 22 24
- urine flow and venous pressure, 1937, 17 411
- vitamin A in, 1944, 24 219
- KIDNEY EXCRETION**
- in circulatory failure, 1938, 18 94
- of electrolytes, 1941, 21 550
- of potassium, adrenalectomy, 1944, 24 95
- of sympathomimetic amines, 1946, 26 184
- of water, 1948, 28 337
- tubular, 1939, 19 63
- cellular processes, 1939, 19 74
- definition, 1939, 19 63
- mass, renal blood flow, 1939, 19 87
- mechanism, 1939, 19 74
- methods for study, 1939, 19 64
- of phenol red, 1939, 19 83
- physiological importance, 1939, 19 85
- specificity of mechanism for various solutes, 1939 19 76
- KIDNEY FUNCTION**
- adrenal cortex, 1944, 24 97
- barbiturates, 1939, 19 478
- before and after birth, 1948, 28 333
- disease, 1941, 21 544
- factors affecting, 1941, 21 529
- glomerular filtration, determination, 1941, 21 539
- urine volume, 1941, 21 547
- in early life, 1948, 28 331
- insufficiency, 17-ketosteroids, 1950, 30 367
- passage of hemoglobin, 1942, 22 23
- tubular leakage and urine flow, 1937, 17 429
- tubular reabsorption, definition, 1939, 19 63
- of glucose, 1939, 19 83
- of hemoglobin, 1942, 22 21, 1942, 22 26
- of water, 1941, 21 547
- tubular synthesis, definition, 1939, 19 63
- urea clearance and other tests, 1941, 21 557
- in newborn, 1948, 28 339
- KIDNEY METABOLISM**
- cellular, in newborn, 1948, 28 343
- cortex slices, pyruvate, 1941, 21 270
- phospholipid turnover, 1942, 22 303
- utilization of ketone bodies, 1945, 25 415
- KILLICK, ESTHER M** Carbon monoxide anoxemia, 1940, 20 313
- KINETICS**
- law of mass action, 1938, 18 497
- KING, C G** Vitamin C, ascorbic acid, 1936, 16 238
- carcinogenesis, 1944, 24 187
- intensity and vision, 1937, 17 245
- ovulation, 1938, 18 485
- KING, E J AND BELT, T H** Aspects of silica, 1938, 18 329
- KLEIBER, M** Body size and metabolic rate, 1947, 27 511
- KLEITMAN, N** Biological rhythms and cycles, 1949, 29 1
- KOCH, F C** The male sex hormones, 1937, 17 153
- KOHLRAB**
- goiter, 1950, 30 527
- KOMAROV'S GASTRIN** *see* GASTRIN
- KRAYER, O AND ACHESON, G H** Pharmacology of veratrum alkaloids, 1946, 26 383
- KREBS CYCLE** *see* CITRIC ACID CYCLE
- KREYBERG, L** Tissue damage by cold, 1949, 29 156
- KRUEGER, A. P** Bacteriophage and its mode of action, 1936, 16 129
- KRUEGER, H** Morphine and digestion, 1937, 17 618
- KRYPTO**
- solubility in tissues, 1947, 27 369
- KUPFER CELLS**
- role, 1944, 24 214
- vitamin A, 1944, 24 211
- LABOR (PARTURITION)** *see* PARTURITION
- LACTASE**
- in intestinal secretion, 1941, 21 51
- LACTATE**
- bacteriophage, 1936, 16 137
- exercise, 1942, 22 43, 1944, 24 320
- fixation of carbon dioxide, 1946, 26 214
- glycogenesis, 1946, 26 137
- in muscular exercise, 1936, 16 281
- inhibition of brain metabolism, 1939, 19 173
- of blood, compared with tissue, 1942, 22 45
- oxygen consumption and in exercise 1950, 30 232
- of muscle and plasma, 1936, 16 455
- denervation, 1939, 19 21
- of skin, 1946, 26 498
- of synovial fluid and serum, 1940, 20 284
- oxidation in brain, 1939, 19 156
- permeability of collodion membranes to, 1936, 16 56
- produced in cold blooded heart, 1936, 16 603
- respiration, 1944, 24 322
- role in muscular contraction, 1941, 21 219
- LACTATION**
- adrenal cortex, 1944, 24 113
- adrenal glands, 1936, 16 510
- anterior pituitary, 1936, 16 501
- cholesterol, 1944, 24 148
- control by uterus, 1936, 16 507
- endocrine control, 1944, 24 348
- equilibrium between blood and milk, 1944, 24 356
- hypophysectomy, 1936, 16 506
- initiation, 1936, 16 504, 1944, 24 353

JOINTS

- cavitation and development, 1950, 30 134
 - decompression sickness, 1947, 27 382
 - developmental considerations, 1950, 30 136
 - formation of intra articular structures, 1950, 30 135
 - function of tissues, 1950, 30 150
 - intra articular structures, 1950, 30 156
 - lubrication mechanisms, 1950, 30 151
 - metabolism in disease, 1940, 20 302
 - moveable, development, 1950, 30 127
 - nerve supply, 1950, 30 139
 - permeability of articular membrane, 1940, 20 296
 - physiology, 1950, 30 127
 - in disease, 1940, 20 301
 - postnatal development, 1950, 30 138
 - properties of tissue, 1950, 30 150
 - structural and functional units, 1940, 20 303
 - synovial tissue and fluid, 1950, 30 156
- JORDAN, H. E. Extramedullary blood production, 1942, 22 375
- JOSEPHSON, B. The circulation of the bile acids, 1941, 21 463
- JUKES, T. H. AND STOKSTAD, E. L. R. Pteroylglutamic acid and related compounds, 1948, 28 51
- JULUS
- velocity of conduction in ganglionic cords, 1946, 26 339

KALE

- goiter, 1950, 30 527
- KAREL, L. Gastric absorption, 1948, 28 433
- KATZ, L. N. The genesis of the electrocardiogram, 1947, 27 398
- KERRIDGE, PHYLLIS M. T. Physiology of hearing and speech, 1938, 18 59

KETO ACIDS

- conversion to carbohydrate, adrenals, 1944, 24 104
- 3 KETO-AETIO-ALLOCHOLANOL-17 *see* ANDROSTANOLS
- Δ^4 -3 KETO-AETIOCHOLENOL-17 *see* TESTOSTERONE

 α KETOADIPATE

- α , oxidation in brain, 1939, 19 166

KETOANDROSTERONE

- 11-, isolated from human urine, 1950, 30 324

KETOGENIC DIET

- antileptic therapy, 1948, 28 423

 α KETOGLUTARATE

- fixation of carbon dioxide, 1946, 26 215
- intermediary metabolite, 1941, 21 280
- oxidative decarboxylation, 1951, 31 75
- oxidation in brain, 1939, 19 166

KETOLYSIS

- interrelation of fat and carbohydrate metabolism, 1945, 25 421

KETONE BODIES

- combustion, adrenal cortex, 1944, 24 105
- complete oxidation, 1946, 26 146
- endocrine relations, 1945, 25 409
- formation, 1946, 26 142
 - in vitro, 1945, 25 413
 - liver glycogen, 1945, 25 423
 - site of, 1945, 25 399
- precursors, 1945, 25 399

- production from fatty acids, 1945, 25 399
- proportion of acetoacetate to beta hydroxybutyrate, 1945, 25 408
- utilization, 1945, 25 413

KETONES

- detoxication, 1939, 19 335
- formation from acetic acid, 1945, 25 405
- industrial health hazards, 1942, 22 173

KETOSIS

- cataract production, 1937, 17 24
- explanation, 1941, 21 150
- glucose tolerance, 1938, 18 285

KETOSTEROIDS

- of adrenal cortex, rate of hormone secretion, 1950, 30 246

17-KETOSTEROIDS

- absorption technique, 1950, 30 338
 - changes in endocrine glands, 1950, 30 345
 - exogenous hormones, 1950, 30 327
 - fractionation, 1950, 30 335
 - isolated from human urine, 1950, 30 324
 - nature and origin, 1950, 30 321
 - neutral, nature, 1950, 30 322
 - of urine, adrenocortical hormone secretion, and, 1950 30 254
 - determination, 1950, 30 330
 - metabolism of steroids, 1950, 30 328
 - normal variations, 1950, 30 340
 - of adults, 1950, 30 338
 - of children, 1950, 30 342
 - of normal men, 1950, 30 336
 - of normal women, 1950, 30 337
 - of older adults, 1950, 30 341
 - origin, determination and significance, 1950, 30 321
 - Pincus method of determination
 - polarographic methods, 1950, 30 335
 - precursors, 1950, 30 326
 - structural formulas, 1950, 30 322
 - Zimmerman reaction, 1950, 30 332
- KIDNEY
- acid base regulation, 1948, 28 342
 - alloxan diabetes, 1948, 28 315
 - amino acids in, 1949, 29 254
 - anatomical changes produced by phlorhizin, 1945, 25 260
 - anatomy of newborn, 1948, 28 343
 - androgens, 1937, 17 202
 - antennal, excretion, 1938, 18 38
 - secretion of nitrogenous materials, 1938, 18 53
 - ascorbic acid in, 1936, 16 448
 - blood flow, nucleic acids and, 1936, 16 301
 - tubular excretion, 1939, 19 88
 - carbonic anhydrase in, 1946, 26 569
 - carcinoma, in frog, 1949, 29 99
 - cortex, cytochrome c and oxygen consumption, 1951 31 417
 - evipan, 1939, 19 172
 - decompression sickness, 1947, 27 385
 - degeneration, choline deficiency, 1944, 24 145
 - ergonovine, 1938, 18 318
 - fetal, silicon of, 1938, 18 334
 - glomerular pressure and urine flow, 1937, 17 413

- LEECH**
velocity of conduction in ganglionic cords, 1946, 26 339
- LEGUMES**
proteins of, 1945, 25 359
- LENNINGER, A. L.** Properties of metal ions, 1950, 30 393
- LENS**
ascorbic acid of, 1937, 17 15
chemistry, 1937, 17 2
glutathione of, 1937, 17 12
metabolism, 1937, 17 8
nutrition, 1937, 17 6
proteins, 1937, 17 3
coagulation by irradiation, 1936, 16 682
structure and growth, 1937, 17 1
vitamin B₂ deficiency, 1937, 17 17
- LENTICULAR NUCLEUS**
cholinesterase in, 1946, 26 369
- LENTILS**
goiter, 1950, 30 527
- LEPIDOPTERA**
nutritional requirements, 1941, 21 15
- LEPKOVSKY, S.** The bread problem in war and in peace, 1944, 24 239
- LEBNER, A. B. AND FITZPATRICK, T. B.** Biochemistry of melanin formation, 1950, 30 91
- LEUCINE**
antagonism to isoleucine, 1947, 27 313
antagonistic structural analogs, 1947, 27 313
essential amino acid, 1938, 18 125
in ergot alkaloids, 1938, 18 306
microbiological assay, 1949, 29 247
- LEUCINE AMINOPEPTIDASE**
metallic ions, 1950, 30 411
- LEUCOCYTOSIS**
nucleic acid derivatives, 1936, 16 307
- LEUKEMIA**
experimental studies, 1946, 26 47
extramedullary blood formation, 1942, 22 380
genesis, 1946, 26 48
heredity, 1946, 26 49
17 ketosteroids, 1950, 30 363
plasma proteins, 1947, 27 632
porphyrins, 1940, 20 451
somatic mutation theory, 1946, 26 71
therapeutic use of radioactive isotopes, 1944, 24 226
- LEUKEMIC CELLS**
genetic and antigenic considerations, 1946, 26 64
growth, 1946, 26 63
chemical modification, 1946, 26 67
milk, 1946, 26 67
nursing influence, 1946, 26 67
physical agents, 1946, 26 68
histogenesis, 1946, 26 63
hormonal growth factors, 1946, 26 66
metabolism, 1946, 26 62
tissue cultures, 1946, 26 61
- LEUKEMOGENESIS**
chemical, 1946, 26 56
x ray, 1946, 26 57
- LEUKOCYTES**
chemotaxis, 1946, 26 319
count, activity, 1943, 23 289
at various ages, 1943, 23 293
errors in methods of determining, 1943, 23 280
factors affecting, 1943, 23 284
daily and hourly variations, 1943, 23 284
differential count, distribution of various kinds, 1943 23 282
source of error, 1943, 23 283
intravascular agglutination, 1951, 31 119
lead, 1938, 18 568
leukemic cells, 1946, 26 60
methods of determining chemotaxis, 1946, 26 319
migration into inflamed tissue, 1938, 18 377
oxygen tension, 1945, 25 21
variations, 1943, 23 279
- LEUKOPOIESIS**
stimulation by urinary substances, 1946, 26 58
- LEUKOTAXINE**
capillary permeability, 1947, 27 457
chemotactic properties in vitro, 1938, 18 379
chemotaxis, 1946, 26 329
inflammation, 1938, 18 375
- LEWIS, J. J.** Diabetes and insulin administration problem, 1949, 29 75
- LH** *see* LUTENIZING HORMONE
- LIGHT REFLEX**
mediation, 1942, 22 213
- LIGHT REFRACTION**
of irradiated protein solutions, 1936, 16 680
- LIMAX**
velocity of nerve conduction, 1946, 26 340
- LIMULUS** *see* ARTHROPODA
- LINDERSTRÖM LANG, K.** *see* HOLTER, H
- LINOLEIC ACID**
biological inertia, 1940, 20 231
essential fatty acid, 1943, 23 261
- LIPASE**
action on fat in intestine, 1946, 26 106
in intestinal secretion, 1941, 21 50
localization in cells, 1941, 21 247
- LIPIDOSES**
definition, 1946, 26 295
- LIPIDS**
calcification, 1943, 23 195
deposition in aorta, mechanisms, 1943, 23 199
excretion in intestinal juice, 1941, 21 47
in atherosclerosis, 1943, 23 185
of adrenal cortex, rate of hormone secretion, 1950, 30 245
of aorta, age, 1943, 23 186
factors in deposition, 1943, 23 190
in atherosclerosis, 1943, 23 189
of blood plasma and arterial tissue, 1943, 23 190
of blood, 1943, 23 191
clinical significance of changes, 1940, 20 14
during weight loss, 1944, 24 29
in atherosclerosis, 1943, 23 191
in experimental atherosclerosis, 1943, 23 196
physical distribution, 1943, 23 193
of human and canine prostatic fluids, 1945, 25 285

LACTATION

- lactogenic hormone in hypophysectomized animals, 1936, 16 509
- nervous influences, 1936, 16 513
- pancreas, 1936, 16 512
- physiology, 1944, 24 340
- posterior pituitary gland, 1936, 16 512
- requirement for nutritional essentials, 1948, 28 121
- thyroid, 1936, 16 512
- time of milk secretion, 1944, 24 356

LACTIC ACID COENZYME *see* DIPHOSPHOPYRIDINE NUCLEOTIDE

LACTIC DEHYDROGENASE

- thyroxin, 1951, 31 216

LACTOBACILLI

- basal media for growth, 1949, 29 226
- for microbiological assay, 1949, 29 232
- Bulgarius, activity of pteroylglutamic acid and related compounds, 1948, 28 62
- determination of amino acids with, 1949, 29 247
- discovery, 1949, 29 222
- nutrition, 1949, 29 226

LACTOFLAVIN *see* RIBOFLAVIN

LACTOGENIC HORMONE

- amino acids of, 1946, 26 581
- assay, 1936, 16 517, 1946, 26 576
- clinical use, 1936, 16 520
- definition, 1946, 26 574
- denaturing agents, 1946, 26 582
- extraction and purification, 1946, 26 576
- heat, pH and, 1946, 26 581
- hydrolysis, 1946, 26 581
- hypothalamus, 1948, 28 164
- insulin of pancreas, 1944, 24 429
- lactation and, in hypophysectomized animals, 1936, 16 509
- physical and chemical properties, 1936, 16 516, 1946, 26 580
- properties, 1946, 26 578

LACTOSURIA

- in infants and adults, 1944, 24 172
- in pregnancy, 1944, 24 171

LAMB DYSENTERY

- description, 1942, 22 131
- toxin, permeability of C.N.S. capillaries, 1942, 22 130

LAMELLAR STRUCTURES *see* MEMBRANOUS STRUCTURES

LAMPREY

- blood production in, 1942, 22 376

LANDIS, E. M. AND HORTENSTINE, J. C. Venous pressure, 1950, 30 1

LANSING, A. I. Physiological aspects of ageing, 1951, 31 274

LANTUGO

- definition, 1939, 19 95

LAPACHOL

- oxidation reduction potentials, 1939, 19 197

LAPICQUE'S LAW

- of isochronism, 1936, 16 411

LAPICQUE'S THEORY

- of curarization, 1936, 16 419

LARSON, E. A. *see* WATSON, C. J.

LARYNGEAL MUSCLES

- studies, 1938, 18 67

LAUG, E. P. *see* CALVERY, H. O.

LAURIC ACID

- growth response of plant like flagellates to, 1941, 21 3

LAW OF MASS ACTION

- acid base balance, 1938, 18 504
- activity concepts, 1938, 18 496
- application to biological problems, 1938, 18 495
- definition, 1938, 18 495
- dissociation of calcium citrate in vivo, 1938, 18 512
- kinetics, 1938, 18 497
- thermodynamics, 1938, 18 499

LAWSONE

- oxidation reduction potentials, 1939, 19 197

LAZAROW, A. Development and progression of diabetes, 1949, 29 48

LE GROS CLARK, W. E. Visual centres of the brain, 1942, 22 205

LEAD

- absorption, 1938, 18 559
- from digestive tract, 1945, 25 184
- average exposure in modern life, 1938, 18 554
- biochemical activity, 1938, 18 560
- chemical methods, 1938, 18 555
- detection in cells, 1941, 21 245
- distribution, in body, 1938, 18 560
- growth of plant and animal tissues, 1938, 18 563
- excretion as criterion, 1938, 18 561
- hazard, evaluation, 1938, 18 554
- hydroxide, enzymes, 1950, 30 424
- inhibition of brain metabolism, 1939, 19 177
- of blood, as criterion of hazard, 1938, 18 561
- of bone, 1937, 17 130
- of tissues and excreta, 1938, 18 556
- physiological activity, 1938, 18 563
- physiological effects, 1938, 18 554
- sources, 1938, 18 557
- tolerance, 1938, 18 573

LEAD OLEATE

- permeability of skin, 1946, 26 530

LEAD POISONING

- amount of lead required, 1938, 18 558
- BAL, 1949, 29 185
- diagnosis, 1945, 25 183
- individual susceptibility, 1938, 18 558
- industrial hazard, 1945, 25 183
- porphyrins, 1940, 20 454
- surveys, 1938, 18 556
- urinary coproporphyrins, 1947, 27 495

LEANDER *see* ARTHROPODA

LEAVES

- proteins, 1945, 25 360

LECITHINASE

- of clostridium Welchii, 1946, 26 292

LECITHINS

- definition, 1946, 26 275
- properties, 1946, 26 280

LECITHOLIPASES

- definition, 1946, 26 292

- ketone production, 1945, 25 408
 lipid phosphorylation, 1942, 22 290
 metabolic balance, 1942, 22 68
 removal, disappearance of blood sugar, 1941, 21 175
 respiratory, 1951, 31 192
 site of detoxication in animals, 1939, 19 344
 toxic substances produced by incubation, 1951, 31 200
 utilization of ketone bodies, 1945, 25 413
- LIZARD**
 muscle, cholinesterase, 1946, 26 369
 venom, 1945, 25 156
- LOYD, D P C.** Functional organization of the spinal cord, 1944, 24 1
- LOBELINE**
 action, body temperature, 1946, 26 255
 in poikilotherms and homeotherms, 1946, 26 255
 permeability of C N S capillaries to, 1942, 22 134
- LOCOMOTION**
 ganglionic function, 1946, 26 352
 peripheral and central control, 1946, 26 348
- LOEW, E R.** Pharmacology of antihistamine compounds, 1947, 27 542
- LOGAN, M A.** Chemistry of calcification, 1940, 20 522
- LOLIGO**
 velocity of nerve conduction, 1946, 26 340, 1946, 26 341
- LUCKÉ, B AND SCHLUMBERGER, H G.** Neoplasia in cold blooded vertebrates, 1949, 29 91
- LUETSCHER, J A., JR.** Electrophoresis, 1947, 27 621
- LUKENS, F D W.** Alloxan diabetes, 1948, 28 304
- LUMBRICUS**
 velocity of nerve conduction, 1946, 26 341
- LUMIFLAVIN**
 antagonism to riboflavin, 1947, 27 313
- LUMINAL**
 inhibition of brain metabolism, 1939, 19 173
- LUMINAL VESSELS**
 coronary blood flow, 1946, 26 38
- LUNG FISH**
 blood production, 1942, 22 376
- LUNGS**
 alveolar phagocytes, origin, 1941, 21 118
 chemical sensitivity, 1947, 27 9
 cholinesterase in, 1951, 31 337
 congestion, 1938, 18 97
 decompression sickness, 1947, 27 376
 diving ability, 1939, 19 118
 fetal, silicon of, 1938, 18 334
 foreign material, elimination, 1941, 21 115
 entrance, 1941, 21 113
 high oxygen tension, 1945, 25 28
 intravascular phagocytosis, 1941, 21 132
 multiple embolism, 1950, 30 475
 nervous factors, 1950, 30 482
 vascular factors, 1950, 30 479
 oxygen storage, 1939, 19 122
 pathology in high oxygen tension, 1945, 25 26, 1945, 25 117
 phagocytosis, 1941, 21 112, 1941, 21 134
 reflexes from, respiration, 1944, 24 328
 silica of, 1938, 18 334
- LUPANINE**
 substitute for insulin, 1949, 29 84
- LUTEINIZING HORMONE**
 definition, 1946, 26 575
 follicular growth, 1947, 27 98
 ovulation, 1947, 27 105, 1947, 27 112
 purification, 1946, 26 600
 various agents, 1946, 26 603
- LUTWAK-MANN, CECILIA** *see* MANN, T
- LUTZ, B R.** Intravascular agglutination, 1951, 31 107
- LYMPH**
 flow in anaphylaxis, 1941, 21 569
 vasomotion and, 1947, 27 450
 glands, silica of, 1938, 18 334
 iodine in, 1940, 20 352
 nodes, blood production in, 1942, 22 377
- LYMPHATIC SYSTEM**
 role in minor injuries, 1938, 18 386
 water exchange, 1944, 24 494
- LYMPHOCYTES**
 adrenocortical secretion, 1950, 30 250
 erythrocyte formation from, 1942, 22 383
 lack of chemotaxis, 1946, 26 324
 of invertebrates, immunity, 1940, 20 75
 sensitivity to radiation, 1944, 24 231
 tissue culture, 1937, 17 602
- LYSERGIC ACID**
 formula, 1938, 18 307
 in ergot alkaloids, 1938, 18 306
- LYSINE**
 achromotrichia, 1948, 28 374
 alternate metabolic pathways, 1950, 30 503
 antagonistic structural analogs, 1947, 27 313
 biological inertia, 1940, 20 239
 demonstration of essentiality, 1938, 18 111
 microbiological assay, 1949, 29 247
- LYSINS**
 absorption, 1936, 16 40
 egg surface, fertilization, 1948, 28 212
 from sperm, role in fertilization, 1948, 28 210
 place in simple hemolytic system, 1936, 16 32
- LYSOLECITHINS**
 definition, 1946, 26 275
- LYSOZYME**
 duodenal secretions, 1941, 21 39
 reversible inactivation, 1937, 17 468
- MACAQUE** *see* MONKEY
- MACCALLUM, W G.** Pathological physiology of the prostate, 1937, 17 73
- MACHLE, W AND HATCH, T F.** Physiological responses to heat, 1947, 27 200
- MACROPHAGES**
 activity and maturation, 1941, 21 119
 dependence on opsonins, 1941, 21 130
 in inflammation, 1938, 18 380
 origin, 1941, 21 117
- MADDER, S C AND WHIPPLE, G H.** Plasma proteins, 1940, 20 194
- MAGNESIUM**
 antagonism to veratrum alkaloids, 1946, 26 426
 clinical significance of changes, 1940, 20 26

LIPIDS

- of muscle, in vitamin E deficiency, 1943, 23 39
- of placenta and fetus, 1941, 21 448
- of portal blood, 1946, 26 116
- of skin, 1946, 26 498
- of systemic and portal circulation, 1940, 20 571
- of tissue, in experimental atherosclerosis, 1943, 23 198
- phosphorylation in egg, 1942, 22 305
- in intact animal, 1942, 22 299
- tissue reactions caused by, 1943, 23 194

LIPINS

- chemistry, 1946, 26 275
- classification, 1946, 26 275
- determination in tissues, 1946, 26 293
- physiology, 1946, 26 289

LIPONIC ACID

- as hormone, 1944, 24 155
- fatty livers, 1942, 22 73
- hypotonic action, 1944, 24 153

LIPIDS

- histochemical studies, 1946, 26 9
- of muscle, denervation, 1939, 19 18
- phagocytosis, in lungs, 1941, 21 123

LIPOLYTIC HYPOTHESES

- of fat absorption, 1946, 26 104

LIPOPHILIA

- in obesity, 1944, 24 27

LIPOPROTEINS

- chemistry, 1946, 26 288

LIPOTROPIC

- chemistry, 1946, 26 281

LIPOTROPIC FACTORS

- definition, 1944, 24 128

LIPOTROPY

- in liver, 1940, 20 575

LIPS

- epithelioma, 1949, 29 98

LITHIUM CARMINES

- staining of bone, 1937, 17 131

LITHIUM CHLORIDE

- diffusion potentials, 1936, 16 66

LIVER

- amino acids in, 1949, 29 254
- anapylaxis in dog, 1941, 21 567
- androgens, 1937, 17 201
- anoxic, VDM, 1951, 31 502
- arterioportal anastomosis, 1951, 31 198
- autolysis in vivo, 1951, 31 199
- bacteriology, 1951, 31 194
- blood flow, 1951, 31 190
- acetyl beta methyl choline, 1942, 22 66
- blood production, 1942, 22 377
- burns, 1945, 25 555
- cholinesterase in, 1951, 31 337
- damage, hemorrhagic disease, 1941, 21 200
- vitamin A distribution, 1944, 24 211
- decompression sickness, 1947, 27 385
- dietary cirrhosis, 1944, 24 133
- carcinogenesis, 1944, 24 197
- choline, 1944, 24 133
- coproporphyrin in, 1947, 27 483

- portal, plasma proteins, 1947, 27 631
 - vitamin A distribution, 1944, 24 212
 - diseases and bile circulation, 1941, 21 478
 - porphyria in, 1940, 20 444
 - evipan, 1939, 19 172
 - extract, nicotinic acid of, 1940, 20 264
 - fat in, 1940, 20 573
 - fetal, silicon of, 1938, 18 334
 - function, diurnal variation, 1941, 21 477
 - vitamin B-complex and hyperthyroidism, 1943, 23 365
 - glycogen, vitamin B-complex and, in hyperthyroidism, 1943, 23 366
 - growth in rats, 1947, 27 82
 - histochemical studies, 1941, 21 257
 - lesions due to tannic acid, 1945, 25 554
 - in arsenamine poisoning, 1939, 19 464
 - nicotinic acid of, 1940, 20 264
 - phlorhizin, 1945, 25 261
 - physiological role, 1942, 22 54
 - right-sided heart failure, 1938, 18 100
 - silica of, 1938, 18 334
 - source of fat in, 1940, 20 228
 - toxic substances produced by incubation, 1951, 31 200
 - vasculature and circulation, 1942, 22 63
 - vitamin A distribution, 1944, 24 210
 - vitamin K in, 1941, 21 196
 - volume, acetyl beta methyl choline, 1942, 22 67
- LIVER, FATTY**
- action of choline, 1944, 24 130
 - biotin, 1946, 26 486
 - due to cholesterol, action of choline, 1944, 24 130
 - fat metabolism, 1940, 20 575
 - in depancreatized animals, 1942, 22 62
 - inositol, 1944, 24 159
 - lipocytic, 1942, 22 73, 1944, 24 153
 - of starvation, choline, 1944, 24 132
 - prevention by choline and related substances, 1944, 24 128
 - produced by anterior pituitary extract, choline, 1944, 24 133
 - by toxic substances, choline, 1944, 24 132
 - proteins, amino acids, 1944, 24 137
 - thiamin, vitamin B-complex, and choline, 1944, 24 135
- LIVER METABOLISM**
- alternative pathways of fatty acid oxidation, 1945, 25 428
 - anoxic, VDM, 1951, 31 502
 - autolysis in vivo, 1951, 31 199
 - cholesterol formation, 1946, 26 299
 - cytochrome c and oxygen consumption, 1951, 31 417
 - fat transport, 1939, 19 562
 - formation of blood sugar, 1941, 21 141
 - glucose tolerance, 1938, 18 277, 1941, 21 160
 - glycogen, ketone formation, 1945, 25 423
 - glycogenesis, 1946, 26 135
 - homeostatic mechanism in regulation of blood sugar, 1941, 21 156
 - intrinsic vascular responses, metabolic exchanges, 1942, 22 64

- carbon monoxide anoxemia, 1940, 20 321
 castration, 1943, 23 145
 chemical composition of prostatic fluid, 1945, 25 285
 of skin, 1946, 26 496
 cholinesterase activity of nervous system, 1945, 25 629
 cutaneous pain threshold, 1947, 27 172
 depancreatized, insulin requirement, 1949, 29 53
 diabetic, insulin of pancreas, 1944, 24 435, 1949, 29 53
 insulin requirement, 1949, 29 53
 pancreas, 1949, 29 52
 diet and development of diabetes, 1949, 29 59
 distribution of vitamin A fluorescence in liver, 1944, 24 213
 essential fatty acid requirement, 1943, 23 262
 establishment of masturbation, 1947, 27 271
 estimated oxygen storage, 1939, 19 122
 estrogens in urine, 1945, 25 243
 excretion of chromoprotein, 1951, 31 387
 exophthalmos, 1949, 29 265
 extramedullary blood formation, 1942, 22 380
 fluoride intoxication, 1940, 20 587
 hemoglobin levels, 1951, 31 347
 myoglobin and cytochrome c, 1951, 31 351
 injection of hydrolyzed proteins, nitrogen balance and, 1944, 24 382
 insulin of pancreas, 1944, 24 413
 intensity discrimination, 1937, 17 256
 ligation of hepatic artery, 1951, 31 196
 lipids of blood, 1943, 23 191
 menstrual cycle, 1937, 17 29
 number of fibers in optic nerve, 1942, 22 207
 oxygen capacity of blood, 1939, 19 119
 oxygen consumption of tissues, cytochrome c, 1951, 31 418
 physiological effects of sunlight, 1945, 25 483
 physiological responses to heat, 1947, 27 200
 physiology of hair, 1939, 19 94
 plasma transfusions and nitrogen balance, 1944, 24 376
 pulse rate of fetus, new born and adult, 1936, 16 117
 reflection of sunlight by skin, 1945, 25 489
 response to shift from low O_2 to pure O_2 , 1945, 25 46
 rhythmical changes in body temperature, 1949, 29 11
 silica of tissues, 1938, 18 334
 skeletal growth, androgens, 1943, 23 156
 estrogens, 1943, 23 156
 small intestine and morphine, 1937, 17 632
 symptoms of concussion, 1945, 25 297
 teeth, vitamin C deficiency, 1945, 25 453
 vitamin D deficiency, 1945, 25 457
 tolerance to asphyxia, 1939, 19 116
 total ventilation, oxygen consumption and, during late exercise, 1950, 30 222
 urinary androgens, 1937, 17 165
 uterus, ergonovine, 1938, 18 314
 vasodilator fibres in skin, 1938, 18 151
 venous pressure and fluid filtration, 1950, 30 3
 vertical stance, 1943, 23 220
 x ray studies on gastric motility and morphine, 1937, 17 621
 zinc in blood, 1949, 29 372
MANATEE, FLORIDA
 duration of dives, 1939, 19 115
MANGANESE
 activation of arginase, 1950, 30 397
 hydroxide, enzymes, 1950, 30 424
 industrial hazard, 1945, 25 187
 metabolism of fetus and placenta, 1941, 21: 452
 of white, enriched white, and whole wheat flours, 1944, 24 272
MANGEL
 goiter, 1950, 30 527
MANN, T AND LUTWAK-MANN, CECILIA Male accessory organs of reproduction, 1951, 31 27
MANNTITE
 permeability of collodion membranes, 1936, 16 56
MANNTITOL
 Q_{O_2} of minced guinea pig brain, 1939, 19 150
MANNULOSE
 Q_{O_2} of minced guinea pig brain, 1939, 19 150
MANN-WILLIAMSON OPERATION
 gastrointestinal study, 1950, 30 71
MARKOWITZ, J AND RAPPAPORT, A M Hepatic artery, 1951, 31 188
MARSHALL, E K, JR Bacterial chemotherapy, 1939, 19 240
 — Chemotherapy of avian malaria, 1942, 22 190
MARSHALL, J A Dental caries, 1939, 19 389
MASON, H. L AND ENGSTROM, W W 17-Ketosteroids, 1950, 30 321
MASSLER, M *see* SCHOUR, I
MASTIGIAS *see* COELENTERATA
MASTITIS
 17-ketosteroids, 1950, 30 364
MASTURBATION
 establishment of habit in human, 1947, 27 271
MATERNAL ORGANISM
 exchange of blood gases with fetus, 1936, 16 118
MAZE LEARNING
 extirpation of parts of brain, 1939, 19 312
McCANCE, R A Renal function in early life, 1948, 28 331
McCULLOCH, W S Functional organization of cerebral cortex, 1944, 24 390
McCUTCHEON, M Chemotaxis in leukocytes, 1946, 26 319
McHENRY, E W AND PATTERSON, JEAN M Lipotropic factors, 1944, 24 128
McINTYRE, A. R Curare in clinical medicine, 1947, 27 464
McKEE, F W AND HAWKINS, W B Phlorhizin glucosuria, 1945, 25 255
McLEAN, F C Law of chemical equilibrium in biology, 1938, 18 495
MEBARAL
 as antiepileptic, 1948, 28 418
MEDULLA OBLONGATA
 eserine, 1945, 25 607
 function in arrest of circulation, 1950, 30 375

MAGNESIUM

- deficiency, teeth, 1945, 25 462
- detection in cells, 1941, 21 243
- industrial hazard, 1945, 25 192
- inhibition of brain metabolism, 1939, 19 173
- metabolism in infants, 1939, 19 423
- of blood, in diagnosis of drowning in sea water, 1944, 24 85
- of bone, 1937, 17 128
- of muscle and plasma, 1936, 16 455
- of synovial fluid and serum, 1940, 20 284
- permeability of C N S capillaries, 1942, 22 134
- synthesis of acetylcholine, 1945, 25 622

MAGOUN, H. W. Brain stem reticular formation, 1950, 30 459

MAIA

- velocity of nerve conduction, 1946, 26 340

MALARIA

- avian, chemotherapy, 1942, 22 190
- cure by drugs, 1942, 22 197
- methods of study, 1942, 22 190
- intravascular agglutination of erythrocytes 1951, 31 109
- liver disease, plasma proteins, 1947, 27 631

MALARIAL PARASITES

- action of drugs on different stages, 1942, 22 195
- drug fastness, 1942, 22 197
- species and strain variation in susceptibility, 1942, 22 196

MALATE

- decarboxylation, 1951, 31 86
- fixation of carbon dioxide, 1946, 26 215
- intermediary metabolite, 1941, 21 268
- oxidation in brain, 1939, 19 165
- phosphate carrier, 1948, 28 297

MALE

- action of estrogens in, 1937, 17 194
- development of mammary gland, 1936, 16 493
- genital sensations, 1947, 27 249
- non-contact stimulation and sexual behavior, 1947 27 244

MALE ACCESSORY ORGANS (OF REPRODUCTION)

- assessment of secretory activity, 1951, 31 32
- chemical constituents of fluid, 1951, 31 27
- dependence upon testosterone, 1951, 31 30
- individual differences, 1951, 31 29
- methods of study, 1951, 31 31
- nutrition, 1951, 31 49
- role, 1951, 31 28
- species variations, 1951, 31 29
- transplants, hormone induced secretion, 1951, 31 41

MALIGNANCY FACTOR

- nature, 1943, 23 118

MALNUTRITION

- carbohydrate metabolism, 1938, 18 248
- conditioning factors, 1948, 28 107
- excretion of essentials, 1948, 28 116
- utilization of nutrients, 1948, 28 114

MALOUEF, N. S. R. Excretion among the arthropoda, 1938, 18 28

MALONATE

- antagonism to succinic acid, 1947, 27 314

MALPIGHIAN TUBES

- excretion by, 1938, 18 36

MALTASE

- of intestinal secretion, 1941, 21 51

MAMMALS

- amino acids in tissues, 1949, 29 254
- development of joints, 1950, 30 131
- male accessory organs, 1951, 31 27
- melanophores, 1948, 28 402
- physiology of fertilization, 1951, 31 1
- pigment pattern, 1948, 28 402
- rhythmic activity, 1949, 29 7
- rhythmical changes in body temperature, 1949, 29 10
- skeleton, sex hormones, 1943, 23 145

MAMMALS, DIVING

- estimated oxygen storage, 1939, 19 122
- relaxation, 1939, 19 129
- respiration, 1939, 19 112

MAMMARY GLANDS

- adrenals, 1944, 24 346
- androgens, 1937, 17 200
- anterior pituitary, 1944, 24 342
- carbohydrate metabolism, 1944, 24 360
- development, 1936, 16 489, 1944, 24 340
- in male, 1936, 16 493
- endocrine control, 1936, 16 488
- estrus cycle, 1936, 16 490
- fat metabolism, 1944, 24 359
- local action of estrogens, 1948, 28 31
- nitrogen metabolism, 1944, 24 361
- placenta, 1944, 24 345
- pregnancy, 1936, 16 492
- pseudopregnancy, 1936, 16 491
- silica of, 1938, 18 334
- steroids, 1944, 24 347
- synergism of estrogen and progesterone, 1944, 24 342
- thyroid gland, 1944, 24 346
- tumors, folic acid derivatives and, 1948, 28 95

MAMMOTROPIN *see* LACTOGENIC HORMONE

MAN

- ability to hold breath in diving, 1939, 19 114
- acetylcholine of nervous tissue, 1945, 25 627
- achromotrichia, nutritional deficiencies and, 1948, 28 374
- activity rhythms in, 1949, 29 9, 1949, 29 20
- adverse effects of oxygen, 1945, 25 44
- alloxan diabetes, 1948, 28 306, 1948, 28 317
- androgens in urine, 1945, 25 241
- appraisal of nutritional status, 1945, 25 326
- ascorbic acid of lens, 1937, 17 15
- bacteriology of liver, 1951, 31 195
- biotin requirement, 1946, 26 485
- blood chlorides after death, 1944, 24 80
- after drowning, 1944, 24 81
- blood groups, 1944, 24 445
- blood lipids in atherosclerosis, 1943, 23 191
- brain, oxygen consumption, 1936, 16 577
- Q₀₂ with p-phenylenediamine, 1939, 19 149
- calcium and phosphorus requirements, 1940, 20 541
- calcium composition of milk, 1939, 19 417
- calcium deficiency, 1945, 25 461

- of fat, absorption, 1940, 20 561
- of fatty acids, 1945, 25 395
- of fetus, 1941, 21 456
- of fructose and galactose, 1936, 16 173
- of phospholipids, 1940, 20 232
- of steroids, 1940, 20 233
- phlorhizin, 1945, 25 267
- pituitary gland, 1940, 20 503
- respiratory catalysis, 1941, 21 267
- significance of alternative pathways, 1950, 30 508
- METABOLISM (TOTAL ORGANISM)**
 - adrenocortical secretion, 1950, 30 253
 - anomalies, in obesity, 1944 24 41
 - barbiturates, 1939, 19 479
 - carbon monoxide anoxemia, 1940, 20 329
 - cataract production, 1937, 17 1
 - changes in stress, 1950, 30 284
 - adrenal cortex, 1950, 30 284
 - chromoproteins, 1951, 31 416
 - during mental work, 1937, 17 443
 - environmental heat, 1947, 27 217
 - ergonovine, 1938, 18 318
 - etiological factor in response to high oxygen tension, 1945, 25 129
 - in vitamin E deficient diet, 1943, 23 41
 - loss of ascorbic acid, 1943, 23 88
 - of fetus, 1936, 16 115
 - phlorhizin, 1945, 25 267
 - plus one atmosphere, O₂ tension, 1945, 25 91
 - ratio of, in work and rest, 1936, 16 269
 - requirement for thyroxine, 1940, 20 365
 - requirement of nutrients, 1948, 28 118
 - respiration, 1950, 30 220
 - respiratory metabolism, 1951, 31 151
 - epinephrine, 1951, 31 151
 - sunburn, 1945, 25 518
 - testis extracts, 1937, 17 153
 - toxemia, 1939, 19 439
 - vitamin A, in hyperthyroidism, 1943, 23 360
 - vitamin C, in hyperthyroidism, 1943, 23 371
 - wound healing, 1936, 16 379
- METABOLITES (ESSENTIAL)**
 - definition, 1945, 25 689
- METAKENTRIN** *see* LUTEINIZING HORMONE
- METALLIC IONS**
 - activation of enzymes, 1937, 17 475
 - biological specificity, 1950, 30 396
 - heme enzymes, 1950, 30 402
 - interaction with proteins, 1950, 30 399
 - with substrates, 1950, 30 399
 - role in enzyme systems, 1950, 30 393
- METASTASIS**
 - in cold-blooded vertebrates, 1949, 29 95
- METEOROLOGICAL FACTORS**
 - biological rhythm, 1949, 29 21
 - leukocyte count, 1943, 23 300
- METHANE**
 - anesthetic gas, 1938, 18 453
 - fixation of carbon dioxide, 1946, 26 208
- METHEDRINE**
 - therapy for motion sickness, 1949, 29 358
- METHEMOGLOBIN**
 - famhal, 1951, 31 386
 - in erythrosis, 1951, 31 389
- METHIONINE**
 - antagonistic structural analogs, 1947, 27 313
 - demonstration of essentiality, 1938, 18 112
 - fatty livers, 1944, 24 139
 - in lactogenic hormone, 1946, 26 581
 - metabolic inhibition by ethionine, 1945, 25 697
 - microbiological assay, 1949, 29 247
- METHIONINE SULFOXIDE**
 - antagonism to glutamic acid, 1947, 27 312
- METHOXININE**
 - antagonism to methionine, 1947, 27 313
- METHYL ACETANILIDE**
 - industrial health hazard, 1942, 22 183
- METHYL ALCOHOL**
 - gastric absorption, 1948, 28 436
 - growth response of plant-like flagellates, 1941, 21 3
 - permeability of collodion membranes to, 1936, 16 56
- 2-METHYL-4-AMINO-1-NAPHTHOL HCl**
 - comparative vitamin K activity, 1941, 21 210
- METHYL ANILINE**
 - industrial health hazard, 1942, 22 183
- METHYL-BROMOACETATE**
 - industrial health hazard, 1942, 22 177
- METHYL-CHLORO-FORMATE**
 - industrial health hazard, 1942, 22 177
- METHYL CYANIDE**
 - exophthalmos, 1949, 29 265
- METHYL CYCLOPROPANE**
 - anesthetic gas, 1938, 18 469
- 17-METHYL-3-EPIHYDROXY-AETIO-ALLO-CHOLANOL-17** *see* ANDROSTANEDIOL
- METHYL FORMANILIDE**
 - industrial health hazard, 1942, 22 183
- 17-METHYL-3-HYDROXY-AETIO-ALLO-CHOLANOL-17** *see* ANDROSTANEDIOL
- 17-METHYL-3-KETO-AETIO-ALLOCHOLANOL-17** *see* ANDROSTANOL
- Δ¹⁷-METHYL-3-KETO-AETIOCHOLENOL-17** *see* TESTOSTERONE
- METHYL NICOTINIC ACID**
 - 1-, amide chloride, anti black tongue activity, 1940, 20 258
 - 6-, anti black tongue activity, 1940, 20 258
- METHYL PANTOTHENIC ACIDS**
 - antagonism to pantothenic acid, 1947, 27 313
- 3-METHYL-5,5-PHENYL ETHYL BARBITURIC ACID** *see* MEBARAL
- 3-METHYL-5,5-PHENYL ETHYL HYDANTOIN** *see* MESANTON
- METHYL-β-PHENYLCHOLINE CHLORIDE** *see* CHOLINE COMPOUNDS
- METHYL SULFURYL CHLORIDE**
 - industrial health hazard, 1942, 22 176
- METHYL-TRYPTOPHAN**
 - antagonism to tryptophan, 1947, 27 314
- Δ¹⁷-METHYLAETIOCHOLENEDIOL-3-TRANS-17** *see* ANDROSTENEDIOLS
- Δ¹⁷-METHYLANDROSTENOL 17 ONE-3** *see* TESTOSTERONE, 17-METHYL

- MEEK, W J** Cardiac response to inhalation anesthesia, 1941, 21 324
- MELANIN**
 chemistry, 1948, 28 377, 1950, 30 91
 dopa-oxidase concept, 1950, 30 95
 epinephrine, 1950, 30 115
 formation, biochemical basis, 1950, 30 117
 from tyrosine, 1945, 25 499, 1950, 30 96
 in Addison's Disease, 1950, 30 114
 in lower animals, 1950, 30 94
 in mammals, 1950, 30 95
 in various chemical conditions, 1950, 30 121
 inhibition, 1950, 30 106
 neurogenic factors, 1950, 30 116
 nutritional factors, 1950, 30 105
 histochemical studies, 1950, 30 92
 hormonal control, 1950, 30 112
 in vertebrates, 1948, 28 383
 nature, 1950, 30 105
 tyrosinase concept, 1950, 30 94
- MELANOMA** *see* **NEOPLASMS**
- MELANOPHORES**
 color patterns in vertebrates, 1948, 28 383
 embryonic origin, 1948, 28 386
 migration, 1948, 28 389
 tissue environment, 1948, 28 391
- MELITURIA**
 benign, 1944, 24 169
- MEMBRANE**
 collodion, as solvent, 1936, 16 60
 permeability to non-electrolytes, 1936, 16 55
 to organic ions, 1936, 16 72
 compound sieve, pore size in, 1936, 16 75
 copper ferrocyanide, permeability to non-electrolytes, 1936, 16 54
 equilibria, water transfer, 1944, 24 491
 gelatine, permeability, 1936, 16 62
 permeability, physiological functions, 1936, 16 52
 to solutes, 1936, 16 52
 sieve, permeability to ions, 1936, 16 65
 sieve like, solvent like, and surface films, 1936, 16 53
 solvent like, 1936, 16 82
 surface, 1936, 16 91
- MEMBRANOUS STRUCTURES**
 ultrastructure, 1939, 19 293
- MENKIN, V** Role of inflammation in immunity, 1938, 18 366
- MENSTRUAL CYCLE**
 BMR, 1949, 29 17
 body temperature, 1949, 29 16
 duration, 1937, 17 29
 in women, 1949, 29 16
- MENSTRUAL DISCHARGE**
 mode of, 1937, 17 32
 total amount, 1937, 17 33
- MENSTRUATION**
 during pregnancy, 1938, 18 590
 iron requirement, 1951, 31 360
 physiology, 1937, 17 28
 theories, 1937, 17 56
 toxemia of pregnancy, 1948, 28 14
 vascular changes, 1937, 17 46
- MENTAL DEFICIENCY**
 glutamic acid, 1950, 30 561
 17 ketosteroids, 1950, 30 363
- MENTAL DISEASE**
 porphyrins, 1940, 20 454
- MENTAL WORK**
 discussion, 1937, 17 436
 fatigue, 1937, 17 436
 physiological activities, 1937, 17 443
- MERCAPTANES**
 as industrial health hazards, 1942, 22 178
- MERCAPTO-IMIDAZOLE**
 inhibition of thyroxin formation, 1950, 30 202
- MERCURIAL SALTS**
 as diuretics, 1944, 24 520
- MERCURIC CHLORIDE**
 bacteriophage, 1936, 16 137
- MERCURY**
 industrial hazard, 1945, 25 186
 intoxication, BAL, 1949, 29 183
 permeability of skin, 1946, 26 529
- MESANTOIN**
 antiepileptic, 1948, 28 421
- MESOPORPHYRIN IX** *see* **PORPHYRINS**
- METABOLIC POOL**
 carbon metabolism, 1946, 26 129
- METABOLIC RATE (TOTAL ORGANISM)**
 body size, 1947, 27 511
 body surface, 1947, 27 513
 epinephrine cardiovascular effects, 1951, 31 171
 prediction from body size, 1947, 27 532
- METABOLIC WEIGHT**
 body weight, 1947, 27 525
- METABOLISM (CELLS & TISSUES)**
 anaerobic, cold blooded heart, 1936, 16 606
 biotin, 1946, 26 489
 epinephrine effect, 1951, 31 154
 in newborn kidney, 1948, 28 343
 of lens, 1937, 17 8
 of tissue, body size, 1947, 27 521
 of wound tissues, 1936, 16 371
 oxidative, in parasitic helminths, 1949, 29 196
 phosphorylation, 1948, 28 283
- METABOLISM (INTERMEDIARY)**
 acetic acid, in animal tissues, 1947, 27 574
 adrenal cortex, 1944, 24 100
 alternate pathways, 1950, 30 487
 antagonism, mechanism, 1947, 27 318
 spectrum of analogs, 1947, 27 316
 blocking by analogs, 1945, 25 687
 competitive inhibitors, 1945, 25 690
 hypothalamic lesions, 1946, 26 554
 epinephrine, blood flow, 1951, 31 172
 inhibitors, biological competition, 1947, 27 308
 isotopes, 1940, 20 218
 isotopic studies, carbon, 1946, 26 128
 fatty acids, 1940, 20 226
 procedure, 1940, 20 222
 mechanism for regulating alternative paths, 1950, 30 507
 of carbon dioxide in microorganisms, 1946, 26 122
 in plants, 1946, 26 120

MONACETINE

permeability of collodion membranes to, 1936, 16 57

MONGE, C Chronic mountain sickness, 1943, 23 166

MONILIA *see* NEUROSPORA

MONKEY

alloxan diabetes, 1948, 28 306

anesthetic dose, 1939, 19 496

biotin requirement, 1946, 26 485

blood dyscrasias, 1948, 28 54

innervation of muscle, 1938, 18 147

insulin of pancreas, 1944, 24 413

17 ketosteroids of urine, 1950, 30 367

macaque, metabolic rate per day, 1947, 27 529

macrocytic anemia, 1948, 28 53

menstrual cycle, 1937, 17 31

number of fibers in optic nerve, 1942, 22 207

pulse rate of fetus, new born and adult, 1936, 16 117

vitamin B₂ deficiency, 1945, 25 447

vitamin C deficiency and teeth, 1945, 25 452

MONOAMINOPHOSPHATIDES

definition, 1946, 26 275

MONOCHLOR-TOLUIDINES

industrial health hazards, 1942, 22 184

MONOCHLORACETIC ACID

permeability of collodion membranes to, 1936, 16 56

MONOCHLOROANILINE

industrial health hazard, 1942, 22 183

MONOCHLORETHANE

industrial health hazard, 1942, 22 176

MONOCHLORHYDRINE

permeability of collodion membranes to, 1936, 16 57

MONOCYTES

chemotaxis, 1946, 26 324

MONOMETHYL-DIALURIC ACID

diabetogenic action, 1948, 28 323

MONOMOLECULAR FILMS

permeability, 1936, 16 94

MONO-NITRO-BUTANE

industrial health hazard, 1942, 22 176

MONO-NITRO-ETHANE

industrial health hazard, 1942, 22 177

MONO-NITRO-METHANE

industrial health hazard, 1942, 22 177

MONO-NITRO-PROPANE

industrial health hazard, 1942, 22 177

MONO-NITROXYLENE

industrial health hazard, 1942, 22 186

MORITZ, A R Determination of death by drowning,

1944, 24 70

MORPHINE

acetylcholine metabolism, 1945, 25 632

adrenal cortex, 1944, 24 108

gastrointestinal tract, 1937, 17 618

mechanism of effect on intestine, 1937, 17 634

potentiation, by barbiturates, 1939, 19 483

urinary coproporphyrins, 1947, 27 497

water diuresis, 1945, 25 584

MORTON SICKNESS

adaptation, 1949, 29 314

central nervous mechanisms, 1949, 29 329

characteristics of effective motions, 1949, 29 317

description, 1949, 29 311

dietary therapy, 1949, 29 348

drugs, 1949, 29 352

etiological significance evoked by motion, 1949, 29 333

etiology, 1949, 29 317

experimental production, 1949, 29 316

incidence, 1949, 29 312

individual predisposition, 1949, 29 314

mechanical therapy, 1949, 29 349

non labyrinthine proprioceptive stimulation, 1949, 29 326

physiological status and susceptibility, 1949, 29 332

position, 1949, 29 326

prediction of susceptibility, 1949, 29 345

psychological factors, 1949, 29 337

psychotherapy, 1949, 29 348

remedial and preventive medication, 1949, 29 349

selection tests, 1949, 29 345

symptoms, 1949, 29 311

therapy, 1949, 29 347

side effects, 1949, 29 358

vestibular factors, 1949, 29 321

visual factors, 1949, 29 325

MOTORNEURONES

xerophthalmos, in Graves' disease, 1949, 29 275

MOROX CORTEX

respiratory center, in exercise, 1944, 24 331

MOUNTAIN SICKNESS

blood constituents, 1943, 23 173

chronic, 1943, 23 175

blood constituents, 1943, 23 177

reproduction, 1943, 23 180

subacute, 1943, 23 167

basal metabolism, 1943, 23 170

blood acid base balance, 1943, 23 171

central nervous system, 1943, 23 170

circulation in, 1943, 23 168

respiration, 1943, 23 169

MOUSE

acetylcholine of nervous tissue, 1945, 25 627

acute toxicity of antihistamines, 1947, 27 550

adrenal glands, changes with reproduction 1945, 25 206

gonadectomy, 1945, 25 209

sex differences in, 1945, 25 204

sex hormones and, 1945, 25 212

anesthetic dose, 1939, 19 497

brain, oxygen consumption of, 1936, 16 577

with p-phenylenediamine, 1939, 19 149

folic acid, 1948, 28 77

glutamic acid in brain, 1950, 30 550

gonads, adrenalectomy, 1945, 25 215

hemolysis of erythrocytes from, 1936, 16 38

insensible loss of water, 1942, 22 15

insulin of pancreas, 1944, 24 412

17-ketosteroids of urine, 1950, 30 368

melanophores, 1948, 28 402

metabolic rate per day, 1947, 27 529

pigment pattern, 1948, 28 402

progesterin action on uterus, 1937, 17 321

sex differences in pelvis, 1943, 23 150

- METHYLBETAINE HCL** *see* BETAINE COMPOUNDS
- METHYLBUTYRATE**
hydrolysis by cholinesterases, 1951, 31 314
- METHYLCHOLINE CHLORIDE** *see* CHOLINE COMPOUNDS
- METHYLCHOLINE ETHYL ESTER** *see* CHOLINE COMPOUNDS
- 17 METHYLDIHYDROTESTOSTERONE** *see* ANDROSTANOIDS
- 3,3' METHYLENE BIS-(4 HYDROXYCOUMARIN)** *see* DICUMAROL
- METHYLENE BLUE**
bacteriophage, 1936, 16 137
permeability of C N S capillaries to, 1942, 22 128
- METHYLGUANIDINE**
intestinal secretion, 1941, 21 55
- METRAZOL**
acetylcholine metabolism, 1945, 25 630
inhibition of brain metabolism, 1939, 19 176
- METRIDIUM**
velocity of conduction in nerve nets, 1946, 26 339
- MEYER, K** Hyaluronic acid and hyaluronidase, 1947, 27 335
- MICROBIOLOGICAL ASSAY**
calculation of results, 1948, 28 274
comparative media for biotin with different organisms, 1948, 28 269
criteria for establishing reliability, 1948, 28 275
determination of response of microorganism, 1948, 28 273
extraction of vitamins for assay, 1948, 28 270
history, 1949, 29 219
inoculum culture, 1948, 28 268
inoculum medium, 1948, 28 268
of amino acids, 1949, 29 219
of vitamins, 1948, 28 255
basal media, 1949, 29 224
physicochemical requirements for growth of assay organisms, 1948, 28 263
preferred methods, 1948, 28 277
vitamin-deficient basal medium, 1948, 28 266
- MICROINCINERATION**
histochemistry, 1941, 21 245
- MICROMETHODS (ENZYME DISTRIBUTION)**
chemical embryology, 1951, 31 443
colorimetry, 1951, 31 438
cytochemical experiments, 1951, 31 440
dilatometric methods, 1951, 31 439
direct histological methods, 1951, 31 439
histochemical experiments, 1951, 31 440
manometric methods, 1951, 31 437
sampling methods, 1951, 31 434
titrimetric methods, 1951, 31 437
- MICROORGANISMS**
cultural characteristics, 1950, 30 492
folic acid, 1948, 28 61
metabolism of carbon dioxide, 1946, 26 122
silicon in, 1938, 18 332
variations in nutritional requirements, 1950, 30 489
- MICRORESPIROMETER TECHNIQUES**
estimation of amount of metabolizing material, 1943, 23 70
reactions for calibration, 1943, 23 69
sensitivities, 1943, 23 69
- MIGRAINE**
17 ketosteroids, 1950, 30 367
- MILK (Cow's)**
copper of, 1939, 19 432
ejection of, 1944, 24 362
equilibrium with blood, 1944, 24 356
iodine of, 1939, 19 434
mineral metabolism of infants and, 1939, 19 422
silica of, 1938, 18 334
synthesis of, 1944, 24 358
zinc in, 1949, 29 373
- MILK FAT**
dietary fat and, 1937, 17 355
- MILK (HUMAN)**
calcium composition, 1939, 19 417
copper of, 1939, 19 432
iodine of, 1939, 19 434
mineral metabolism of infants and, 1939, 19 422
- MILK (SKIM)**
nicotinic acid of, 1940, 20 264
- MILLIKAN, G A** Muscle hemoglobin, 1939, 19 503
- MINERAL DEFICIENCY**
oral structures, 1945, 25 459
- MINERAL DUSTS**
phagocytosis, 1941, 21 121
- MINERAL METABOLISM**
of normal infants, 1939, 19 415
of placenta and fetus, 1941, 21 451
- MINERAL OIL**
absorption of fat soluble vitamins, 1948, 28 108
- MINERALS**
excretion, by arthropoda, 1938, 18 42
intestinal absorption, 1948, 28 109
metabolism, phlorhizin, 1945, 25 274
- MINK**
folic acid, 1948, 28 79
- MINOT, A S** Physiological effects of small amounts of lead, 1938, 18 554
- MINUTE VOLUME**
of fetal blood, 1936, 16 106
- MITOCHONDRIA**
cytochrome c in, 1951, 31 386
development of malignancy, 1943, 23 119
localization of substances in, 1941, 21 254
- MITOSIS**
radiation, 1936, 16 364
- MOISTURE** *see* WATER
- MOLDS**
microbiological assay of vitamins, 1948, 28 260
- MOLE**
changes in adrenals with reproduction, 1945, 25 207
- MOLLUSCA**
acetylcholine of tissues, 1946, 26 371
cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
nervous control of locomotion, 1946, 26 355
nervous system, electrophysiology, 1947, 27 652
nutrition, 1941, 21 28
velocity of nerve conduction, 1946, 26 340
- MOLYBDENUM**
normal pigmentation, 1950, 30 112

- water in, 1939, 19 16
weight, 1939, 19 10
- MUSCLE METABOLISM**
autolysis and atrophy, 1938, 18 181
glycogenesis, 1946, 26 140
in vitamin E deficiency, 1943, 23 40
muscle hemoglobin, 1939, 19 520
oxidation of fat, 1945, 25 417
oxygen consumption, 1939, 19 519
phospholipid turnover, 1942, 22 305
phosphorylation, 1940, 20 242
utilization of ketone bodies, 1945, 25 414
- MUSCLE, SKELETAL**
activity, epinephrine, 1951, 31 177
comparison with smooth, 1944, 24 467
cytochrome c and oxygen consumption, 1951, 31 417
high oxygen tension, 1945, 25 104
K and Na in, 1936, 16 467
lead, 1938, 18 568
prostigmine in, 1945, 25 381
veratrum alkaloids, 1946, 26 409
- MUSCLE, SMOOTH**
acetylcholine and epinephrine antagonism, 1944, 24 472
action potential, 1944, 24 478
afferent innervation, 1944, 24 471
barbiturates, 1939, 19 477
chronaxie, 1944, 24 474
comparison with striated, 1944, 24 467
conduction, 1944, 24 477
contraction period, 1944, 24 476
drugs, 1944, 24 473
efferent innervation, 1944, 24 469
elastic and mechanical properties, 1944, 24 483
electrical excitability, 1937, 17 524, 1944, 24 474
electrical phenomena, 1937, 17 526
ganglion cell-free preparations, 1944, 24 471
impedance changes, 1944, 24 482
in anaphylaxis in guinea pig, 1941, 21 572
innervation, hormonal influences on reaction, 1944, 24 473
seasonal influences on reaction, 1944, 24 473
vitamin influences on reaction, 1944, 24 473
K and Na in, 1936, 16 468
latent period, 1944, 24 476
lead, 1938, 18 569
mechanisms of exophthalmos, 1949, 29 266
refractory period, 1944, 24 477
sensitivity to radiation, 1944, 24 231
structure, 1944, 24 468
tonus, 1944, 24 484
veratrum alkaloids, 1946, 26 411
vertebrate, 1944, 24 467
vitamin E deficiency, 1943, 23 43
- MUSKRAT**
duration of dives by, 1939, 19 115
oxygen capacity of blood, 1939, 19 119
survival of submersion, 1939, 19 114
- MUSSEL POISON**
body temperature and activity, 1946, 26 250
- MUSTARD GAS**
carcinogenesis, 1944, 24 183
- MUSTARD SEED**
goiter, 1950, 30 527
- MUTANTS**
neurospora, evolutionary implications, 1945, 25 661
- MUTATION**
ratio of lethal to viable, radiation, 1944, 24 231
- MYASTHENIA GRAVIS**
contraindications to use of curare, 1947, 27 473
- MYCOCEROSIC ACID**
chemistry, 1946, 26 279
- MYCOLIC ACID**
chemistry, 1946, 26 279
- MYELIN**
in normal nerve, 1942, 22 321
- MYELOMA** *see* NEOPLASMS
- MYENTERIC PLEXUS**
acetylcholine of, 1946, 26 371
- MYERS, V C and MONTWYLER, E** Chemical changes in the blood, 1940, 20 1
- MYOCARDIUM** *see* HEART MUSCLE
- MYOCHROME**
definition, 1939, 19 504
- MYOGLOBIN** *see* HEMOGLOBIN, muscle
- MYOHAEMATIN** *see* CYTOCHROME
- MOTATIC REFLEX**
mediation in spinal cord, 1944, 24 4
- MYOTONIA DYSTROPHICA**
17-ketosteroids, 1950, 30 364
- MYRIAPODA**
locomotion, 1946, 26 359
velocity of conduction in ganglionic cords, 1946, 26 339
- MYRISTIC ACID**
growth response of plant like flagellates to, 1941, 21 3
- MYRTILLIN**
substitute for insulin, 1949, 29 83
- MYTILUS**
velocity of nerve conduction, 1946, 26 340
- MYXEDEMA**
cholesterol of serum, 1946, 26 297
17-ketosteroids, 1950, 30 356
- N**
- NAPHTHALENE**
industrial health hazard, 1942, 22 187
- NAPHTHOHYDROQUINONES**
comparative vitamin K activity, 1941, 21 210
- NAPHTHYLACRYLIC ACID**
antagonism to tryptophan, 1947, 27 314
- NAPHTHYLAMINES**
industrial health hazards, 1942, 22 187
water diuresis, 1945, 25 585
- NAPHTHYLMETHYLETHYL- β -CHLOROETHYLAMINE**
minimum effective doses, 1947, 27 552
- NARCONUMAL**
anesthetic dose in various species, 1939, 19 497
- NASAL MUOCSA**
local action of estrogens on, 1948, 28 40
- NECROSIS**
due to burns, 1945, 25 533

MOUSE

- skeletal development and sex hormones, 1943, 23 146
- steroid hormones and gross changes in, 1943, 23 153
- toxicity of veratrum alkaloids, 1946, 26 388
- transport of sperm, 1951, 31 4

MOUTH

- epithelioma, 1949, 29 98

MOXON, A. L. and RHIAN, M. Selenium poisoning, 1943 23 305**MUCINS**

- action of virus enzyme, 1951, 31 137
- of synovial fluid and serum, 1940, 20 284

MUCOPROTEINS

- histochemistry, 1946, 26 6
- virus action, 1951, 31 131

MULE

- selenium poisoning, 1943, 23 312

MUNIDA *see* ARTHROPODA**MUNRO, H. N.** Protein sparing by carbohydrate and fat, 1951, 31 449**MUNTWYLER, E.** *see* MYERS, V. C.**MURPHY, E. A.** *see* DUNN, M. S.**MUSCARINE**

- arthropod nervous system, 1946, 26 467
- parasympathetic nervous system, 1937, 17 381
- site of action, 1937, 17 392

MUSCLE

- activity, ascorbic acid, calcium, 1943, 23 93
- conductivity, 1936, 16 480
- electrolyte change, 1936, 16 475
- hemoglobin, 1939, 19 504
- hydrogen ion change, 1936, 16 478
- protein, 1936, 16 479
- urea clearance, 1941, 21 533
- vasodilator fibres, 1938, 18 148
- water, 1936, 16 479
- anion impermeability, 1936, 16 462
- autolysis and atrophy, 1938, 18 181
- cation permeability, 1936, 16 460
- chronaxie, 1936, 16 409
- contraction, adenosine, 1936, 16 301
- anaerobic, mechanism, 1941, 21 228
- chemistry, 1941, 21 217
- excitation, 1939, 19 34
- Meyerhof cycle, 1941, 21 232
- oxidative mechanisms, 1941, 21 225
- oxidative recovery rates from anaerobic reactions, 1941, 21 226
- Pasteur reaction, 1941, 21 232
- post-contraction phenomena, 1941, 21 235
- potassium, 1940, 20 385
- recovery rates, 1941, 21 224
- thermodynamics, 1941, 21 234
- decompression sickness, 1947, 27 381
- diffusion of onium salts into, 1936, 16 532
- electrogram, veratrum alkaloids, 1946, 26 414
- function, potassium, 1940, 20 400
- histology of contracture, 1939, 19 15
- onium salts, 1936, 16 528
- osmotic relations, 1936, 16 450
- permeability, 1936, 16 459

- re innervation of motor end plates, 1942, 22 356
- spindles, degeneration and re innervation of, 1942, 22 358

- tissue culture, 1937, 17 607

- tissue space, 1936, 16 456

- tone, abnormal, curare, 1947, 27 470

- vascular effect of epinephrine, 1938, 18 143

- veratrum alkaloids, 1946, 26 408

- weakness, exophthalmos, 1949, 29 268

- weight changes, and permeability, 1936, 16 453

- x ray diffraction, 1939, 19 285

MUSCLE CONSTITUENTS

- amino acids, 1949, 29 254

- cholinesterase, 1946, 26 369

- comparison with plasma, 1936, 16 455

- composition, in vitamin E deficiency, 1943, 23 39

- electrolytes, 1936, 16 450, 1943, 23 39

- embryonic, cholinesterase, 1946, 26 369

- fetal, silicon, 1938, 18 334

- hemoglobin, 1939, 19 503

- hydrogen ion concentration, 1936, 16 472

- nicotinic acid, 1940, 20 264

- of frog, 1936, 16 454

- potassium vs. sodium chloride, 1936, 16 471

- silica, 1938, 18 334

MUSCLE DENERVATED

- acetylcholine, 1939, 19 37

- atrophy in, 1939, 19 26

- calcium in, 1939, 19 17

- chloride in, 1939, 19 17

- contractility, 1939, 19 3

- contracture, 1939, 19 9

- creatine in, 1939, 19 20

- cytochrome, 1939, 19 24

- cytoplasm, 1939, 19 12

- degeneration, 1939, 19 6, 1939, 19 14

- electrolytes in, 1939, 19 17

- epinephrine, reaction and, 1945, 25 377, 1950, 30 189

- excitability, 1939, 19 2

- fibrillation, 1939, 19 7, 1939, 19 35

- fibrous growth, 1939, 19 15

- fibrous transformation and, 1939, 19 15

- glutathione, 1939, 19 24

- glycogen in, 1939, 19 21

- hemoglobin, 1939, 19 24

- hydrogen ion concentration in, 1939, 19 18

- lactic acid in, 1939, 19 21

- lipoids in, 1939, 19 18

- metabolism, 1939, 19 23

- morphology, 1939, 19 10

- nitrogen in, 1939, 19 20

- nutrition, 1939, 19 40

- phosphorus in, 1939, 19 19

- posterior root and sympathetic, 1939, 19 30

- potassium in, 1939, 19 17

- reaction, 1939, 19 32

- sensitization to mediator, 1944, 24 475

- sole plates, 1939, 19 11

- spindle, 1939, 19 30

- subsarcolemmal nuclei, 1939, 19 12

- succino-dehydrogenase activity, 1939, 19 24

- water in, 1939, 19 16
weight, 1939, 19 10
- MUSCLE METABOLISM**
autolysis and atrophy, 1938, 18 181
glycogenesis, 1946, 26 140
in vitamin E deficiency, 1943, 23 40
muscle hemoglobin, 1939, 19 520
oxidation of fat, 1945, 25 417
oxygen consumption, 1939, 19 519
phospholipid turnover, 1942, 22 305
phosphorylation, 1940, 20 242
utilization of ketone bodies, 1945, 25 414
- MUSCLE, SKELETAL**
activity, epinephrine, 1951, 31 177
comparison with smooth, 1944, 24 467
cytochrome c and oxygen consumption, 1951, 31 417
high oxygen tension, 1945, 25 104
K and Na in, 1936, 16 467
lead, 1938, 18 568
prostigmine in, 1945, 25 381
veratrum alkaloids, 1946, 26 409
- MUSCLE, SMOOTH**
acetylcholine and epinephrine antagonism, 1944, 24 472
action potential, 1944, 24 478
afferent innervation, 1944, 24 471
barbiturates, 1939, 19 477
chronaxie, 1944, 24 474
comparison with striated, 1944, 24 467
conduction, 1944, 24 477
contraction period, 1944, 24 476
drugs, 1944, 24 473
efferent innervation, 1944, 24 469
elastic and mechanical properties, 1944, 24 483
electrical excitability, 1937, 17 524, 1944, 24 474
electrical phenomena, 1937, 17 526
ganglion cell-free preparations, 1944, 24 471
impedance changes, 1944, 24 482
in anaphylaxis in guinea pig, 1941, 21 572
innervation, hormonal influences on reaction, 1944, 24 473
seasonal influences on reaction, 1944, 24 473
vitamin influences on reaction, 1944, 24 473
K and Na in, 1936, 16 468
latent period, 1944, 24 476
lead, 1938, 18 569
mechanisms of exophthalmos, 1949, 29 266
refractory period, 1944, 24 477
sensitivity to radiation, 1944, 24 231
structure, 1944, 24 468
tonus, 1944, 24 484
veratrum alkaloids, 1946, 26 411
vertebrate, 1944, 24 467
vitamin E deficiency, 1943, 23 43
- MUSKRAT**
duration of dives by, 1939, 19 115
oxygen capacity of blood, 1939, 19 119
survival of submersion, 1939, 19 114
- MUSSEL POISON**
body temperature and activity, 1946, 26 250
- MUSTARD GAS**
carcinogenesis, 1944, 24 183
- MUSTARD SEED**
goiter, 1950, 30 527
- MUTANTS**
neurospora, evolutionary implications, 1945, 25 661
- MUTATION**
ratio of lethal to viable, radiation, 1944, 24 231
- MYASTHENIA GRAVIS**
contraindications to use of curare, 1947, 27 473
- MYCOCEROSEIC ACID**
chemistry, 1946, 26 279
- MYCOLIC ACID**
chemistry, 1946, 26 279
- MYELIN**
in normal nerve, 1942, 22 321
- MYELOMA** *see* NEOPLASMS
- MYENTERIC PLEXUS**
acetylcholine of, 1946, 26 371
- MYERS, V. C. and MUNTZWEILER, E.** Chemical changes in the blood, 1940, 20 1
- MYOCARDIUM** *see* HEART MUSCLE
- MYOCHROME**
definition, 1939, 19 504
- MYOGLOBIN** *see* HEMOGLOBIN, muscle
- MYOHAEMATIN** *see* CYTOCHROME
- MYOTATIC REFLEX**
mediation in spinal cord, 1944, 24 4
- MYOTONIA DYSTROPHICA**
17-ketosteroids, 1950, 30 364
- MYRIAPODA**
locomotion, 1946, 26 359
velocity of conduction in ganglionic cords, 1946, 26 339
- MYRISTIC ACID**
growth response of plant like flagellates to, 1941, 21 3
- MYRTILLIN**
substitute for insulin, 1949, 29 83
- MYTILUS**
velocity of nerve conduction, 1946, 26 340
- MYXEDEMA**
cholesterol of serum, 1946, 26 297
17 ketosteroids, 1950, 30 356
- N**
- NAPHTHALENE**
industrial health hazard, 1942, 22 187
- NAPHTHOHYDROQUINONES**
comparative vitamin K activity, 1941, 21 210
- NAPHTHYLACRYLIC ACID**
antagonism to tryptophan, 1947, 27 314
- NAPHTHYLAMINES**
industrial health hazards, 1942, 22 187
water diuresis, 1945, 25 585
- NAPHTHYLMETHYLETHYL β -CHLOROETHYLAMINE**
minimum effective doses, 1947, 27 552
- NARCOTICUM**
anesthetic dose in various species, 1939, 19 497
- NASAL MUCOSSA**
local action of estrogens on, 1948, 28 40
- NECROSIS**
due to burns, 1945, 25 533

NEGROES

sickle cell anemia, 1944, 24 456

NELSON, C. E. and CALVER, H. O. Present status of the ergot question, 1938, 18 297

NELSON, W. O. Endocrine control of mammary gland, 1936, 16 488

NEMATHELMINTHES

nutrition, 1941, 21 26

NEMERTEA

cholinesterase in nervous and neuromuscular tissues, 1946, 26 370

NEOANTERGAN

acute toxicity, 1947, 27 550

minimum effective doses, 1947, 27 552

pharmacology, 1947, 27 545

NEOPLASMS

adenocarcinoma, prostatic, erythrocyte production, 1942, 22 381

radiation, 1944, 24 236

bacterial toxins, 1937, 17 113

biochemistry, 1937, 17 92

carbohydrate metabolism and respiration, 1937 17 103

carcinoma, of frog, transplantation, 1949, 29 109

chemical influences on growth, 1937, 17 109

chemotherapeutic agents, 1937, 17 114

due to radiation injury, 1944, 24 234

electrolytes in, 1937, 17 101

epidermoid carcinoma, radiation, 1944, 24 235

epithelioma, of lip and mouth, 1949, 29 98

extracts, histogenesis, 1943, 23 103

factors in development, 1943, 23 101

gastric, 17 ketosteroids, and, 1950, 30 362

growth and organizing factors, 1943, 23 101

hepatic, hutter yellow, choline, 1944, 24 150

hormones, 1937, 17 112

in cold blooded vertebrates, 1949, 29 91

biochemical studies, 1949, 29 123

etiology, 1949, 29 102

genetic factors, 1949, 29 102

incidence, 1949, 29 95

morphogenesis, 1949, 29 112

structure and behavior, 1949, 29 95

temperature, 1949, 29 116

transplantation, 1949, 29 106

induction, 1943, 23 112, 1949, 29 118

insulin of pancreas, 1944, 24 416

17 ketosteroids, 1950, 30 361

lipids in, 1937, 17 102

lymphosarcoma, radiation, 1944, 24 235

mammary, 17 ketosteroids, 1950, 30 362

melanoma, of corium, 1949, 29 97

mesenchymal, of corium, of goldfish, 1949, 29 99

myeloma, multiple, plasma proteins, 1947, 27 632

neuroma, prevention, 1942, 22 329

nucleic acid, 1937, 17 102

nutritional and metabolic factors, 1937, 17 110

of frog, kidney, 1949, 29 99

of nerve sheaths of fish, 1949, 29 99

oral, vitamin B deficiency, 1945, 25 449

organization and differentiation, 1943, 23 101

phospholipid turnover, 1942, 22 305

physico-chemical basis, 1936, 16 374

plasma proteins, 1947, 27 632

prostatic, 17 ketosteroids, 1950, 30 362

protein metabolism, 1937, 17 106

radio-sensitive, 1944, 24 228, 1944, 24 236

sunburn and development, 1945, 25 506

teratoma, development and reactions, 1943, 23 107

tissue extracts, 1937, 17 112

vitamin A distribution, 1944, 24 219

zinc, 1949, 29 376

NEPHRECTOMY

bilateral, hypertension, 1940, 20 168

NEPHRITIS

organic phosphates of blood, 1941, 21 426

specific gravity of urine, 1941, 21 553

NERVE CONDUCTION

acetylcholine, 1945, 25 633

action potential wave, in invertebrate, 1946, 26 338

arthropod, velocity, 1946, 26 457

epinephrine, 1945, 25 383

giant fibers, 1946, 26 342

in animals without nervous system, 1946, 26 337

invertebrate, fiber diameter, 1946, 26 338

length of nerve processes, 1946, 26 338

speed of, 1946, 26 338

nodes, 1946, 26 342

potassium, 1940, 20 398

velocity, fiber diameter and sheath thickness, 1946, 26 340

NERVE FIBERS

action potential, acetylcholine, 1945, 25 633

anatomical results of section, 1942, 22 323

neurilemma and membrane of Schwann, 1942, 22 322

sheath, relation to velocity of conduction, 1946, 26 341

NERVE NETS

coordinative functions, 1946, 26 345

neurophysiological functions, 1946, 26 346

velocity of conduction, 1946, 26 339

NERVES

action potential, epinephrine, 1945, 25 384

afferent, constitution, in spinal cord, 1944, 24 3

axon, in normal, 1942, 22 321

rate of regeneration, 1942, 22 345

cholinergic, 1937, 17 490

chronaxie, 1936, 16 407

as measure of speed, 1936, 16 431

composition, 1942, 22 319

degeneration, proliferation of Schwann cells, 1942 22 339

duodenal secretion, 1941, 21 40

electrogram, veratrum alkaloids, 1946, 26 414

high oxygen tension, 1945, 25 104

myelin sheath, ultrastructure, 1939, 19 293

nodes of Ranvier, 1942, 22 322

onium salts, 1936, 16 528

pathway between skin and higher centers, 1946, 26 80

peripheral, arthropod, nerve potential, 1946, 26 455

silica of, 1938, 18 334

regeneration, 1942, 22 323

crossing of scar, 1942, 22 330

- delayed suture, 1942, 22 363
 factors affecting, 1942, 22 366
 functional completion, 1942, 22 349
 good union of stumps, 1942, 22 331
 grafts, 1942, 22 333
 maturation, 1942, 22 347
 neurotropism, 1942, 22 335
 rate, 1942, 22 345
 union scar, 1942, 22 324
 re-innervation of end organs, 1942, 22 354
 retrograde degeneration and sprouting, 1942, 22 327
 section, degeneration and peripheral stump, 1942, 22 336
 re innervation of peripheral stump, 1942, 22 342
 sheath, tumors, in fish, 1949, 29 99
 size rule and protoplasmic chronaxie, 1936, 16 417
 skin, constituent fibers, 1946, 26 81
 subordination, 1936, 16 423
 sympathetic vasodilators, 1937, 17 491
 veratrum alkaloids, 1946, 26 408, 1946, 26 412
- NERVOUS SYSTEM**
 carbonic anhydrase, 1946, 26 567
 function in sexual behavior, 1947, 27 241
 functional repair, 1942, 22 318
 invertebrate, nerve net, 1947, 27 643
 physiological neuroanatomy, 1947, 27 650
 physiology, 1946, 26 337
 sense organs, 1947, 27 655
 spontaneous central activity, 1947, 27 653
 unit junctions, 1947, 27 648
 menstruation, 1937, 17 45
 monosynaptic systems, 1942, 22 155
 polysynaptic systems in, 1942, 22 157
 sex hormones, 1947, 27 287
 vitamin A deficiency, 1942, 22 237
- NERVOUS SYSTEM, ARTHROPOD**
 acetylcholine in, 1946, 26 453
 anatomy, 1946, 26 447
 arrangement of neurons, 1946, 26 447
 biochemistry, 1946, 26 451
 carbohydrates of, 1946, 26 452
 cholinesterase in, 1946, 26 453
 electrical phenomena, 1946, 26 455
 epinephrine in, 1946, 26 454
 ionic composition, 1946, 26 451
 lipids of, 1946, 26 453
 metabolism, 1946, 26 454
 motor nerve endings, 1946, 26 448
 neuromotor system, 1946, 26 448
 pharmacology, 1946, 26 465
 proteins in, 1946, 26 453
 structure and function, 1946, 26 447
- NEURAMINIC ACID**
 chemistry, 1946, 26 288
- NEUROHYPOPHYSIS**
 antidiuretic hormone, 1948, 28 143
 adrenocortical hormones, 1949, 29 289
 blood pressure, 1948, 28 150
 blood sugar, 1948, 28 149
 definition, 1948, 28 140
 hypothalamo-hypophyseal tract, 1948, 28 141
 intestinal peristalsis, 1948, 28 152
 nerve supply, 1948, 28 140
 neural control, 1948, 28 143
 stimulation of supraoptico-hypophyseal tract, 1948, 28 153
 termination of hypothalamo-hypophyseal tract, 1948, 28 142
 uterus, 1948, 28 147
see also POSTERIOR PITUITARY
- NEUROMAS** *see* NEOPLASMS
- NEUROMUSCULAR INTEGRATION**
 in invertebrates, 1946, 26 363
- NEUROMUSCULAR JUNCTION**
 acetylcholine and transmission, 1937, 17 485, 1937, 17 504
 invertebrate, coordination at, 1946, 26 345
 paralysis by sympathetic stimulation, 1945, 25 385
- NEUROMUSCULAR SYSTEM**
 arthropod, 1946, 26 461
- NEURONS**
 arthropod, sheath, 1946, 26 450
 heterogeneous endings, 1942, 22 157
 reciprocal overlap of homogeneous endings, 1942, 22 159
 sensitivity to radiation, 1944, 24 231
- NEUROSECRETION**
 cytology of cells, 1945, 25 175
 functional role of cells, 1945, 25 178
 in central nervous system of vertebrates and invertebrates, 1945, 25 173
- NEUROSPORA**
 arginine synthesis, 1945, 25 653
 genetic segregation, 1945, 25 648
 genetics and metabolism, 1945, 25 643
 heat activation of ascospores, 1945, 25 648
 heterocaryosis, 1945, 25 650
 life cycle, 1945, 25 646
 mechanism of gene action, 1945, 25 659
 metabolism of mutant strain, 1945, 25 658
 methods of culture, 1945, 25 650
 morphology and physiology, 1945, 25 644
 mutant, evolutionary implications, 1945, 25 661
 production of, 1945, 25 651
 use for bioassay, 1945, 25 659
 ornithine cycle, 1945, 25 654
 synthesis of vitamins, 1945, 25 657
 tryptophan synthesis, 1945, 25 655
- NEUTROPHILES**
 chemotaxis, 1946, 26 323
 in inflammation, 1938, 18 380
 phagocytic activity, 1941, 21 126
- NEWBORN**
 acid base regulation, kidney, 1948, 28 342
 hemorrhagic disease, 1941, 21 200
 kidney, 1948, 28 331
 pulse rate as compared to fetus and adult, 1936, 16 117
 urea clearance, 1948, 28 339
 weight, 1941, 21 442
- NEWBURN, L. H.** Obesity, 1944, 24 18
 — and JOHNSTON, MARGARET W. The insensible loss of water 1942, 22 1

- NEWTON, W. H.** Hormones and the placenta, 1938, 18 419
- NIACIN**
 analogs, metabolic inhibition, 1945, 25 695
 antagonistic structural analogs, 1947, 27 313
 anti black tongue activity, 1940, 20 258
 critical deficiency in pellagra, 1940, 20 260
 deficiency, oral structures, 1945, 25 448
 tissue changes, 1942, 22 266
 enrichment of bread, 1944, 24 262
 history, 1940, 20 254
 iso, anti black tongue activity, 1940, 20 258
 localization in cells, 1941, 21 252
 microbiological assay, 1948, 28 256
 extraction procedure, 1948, 28 271
 of foods, 1940, 20 262
 of white, enriched white, and whole wheat flours, 1944, 24 272
 pellagra, 1940, 20 249
 toxicity, 1940, 20 257
- NICKLE**
 activation of arginase, 1950, 30 397
- NICOTINAMIDES**
 antagonistic structural analogs, 1947, 27 313
 anti black tongue activity, 1940, 20 258
- NICOTINE**
 arthropod nervous system, 1946, 26 466
 body temperature and action, 1946, 26 267
 like transmissions, 1937, 17 499
 parasympathetic nervous system, 1937, 17 389
 permeability of C.N.S. capillaries to, 1942, 22 134
 prostatic secretion, 1945, 25 284
 site of action, 1937, 17 392
- NICOTINIC ACID** *see* NIACIN
- NICOTINURIC ACID**
 anti black tongue activity, 1940, 20 258
- NICITATING MEMBRANE**
 action potentials, 1944, 24 478
 cholinergic nerves, 1937, 17 491
 denervated sensitized, reaction, 1943, 23 9
 sympathetic innervation in rabbit, 1943, 23 2
 sympathin, 1943, 23 9
 tests for autonomic function with, 1943, 23 2
- NIEMANN PICK'S DISEASE**
 characteristics, 1946, 26 303
 lipid metabolism, 1946, 26 303
- NIGHT BLINDNESS**
 retinal function, 1937, 17 253
- NILE BLUE**
 permeability of C.N.S. capillaries to, 1942, 22 128
- NIPECOTIC ACID**
 anti black tongue activity, 1940, 20 258
- NIPPLE** *see* BREAST
- NIPPOSTROGYLUS**
 immunity to 1940, 20 477
- NITRITES**
 coronary blood flow, 1946, 26 42
- NITRO-COMPOUNDS**
 detoxication, 1939, 19 338
- NITROANILINES**
 industrial health hazard, 1942, 22 184
- NITROBENZENE**
 industrial health hazard, 1942, 22 184
- NITROBENZOIC ACID**
 antagonism to p-aminobenzoic acid, 1947, 27 312
- NITROGEN**
 excretion, exercise, 1942, 22 47
 in arthropoda, 1938, 18 46
 in intestinal juice, 1941, 21 47
 increased, 1948, 28 117
 isotopic, preparation of compounds, 1940, 20 224
 of cells at various ages, 1943, 23 81
 of fetus and infant, 1939, 19 422
 of human and canine prostatic fluids, 1945, 25 285
 of muscle, denervation, 1939, 19 20
 requirement of protozoa, 1941, 21 4
 response to compressed air, 1945, 25 63
 solubility in tissues, 1947, 27 368
 sources for insects, 1941, 21 12
- NITROGEN BALANCE**
 carbohydrate or fat, 1951, 31 452
 during starvation, fat, 1951, 31 458
 energy intake, 1951, 31 450
 dynamic relationship, 1951, 31 455
 injected hydrolyzed proteins, 1944, 24 378
 intravenous administration of proteins, 1944, 24 372
 intravenous injection of plasma protein, 1944, 24 373
 on diet lacking carbohydrate, 1951, 31 458
 on diets without carbohydrate, 1951, 31 458
 substitution of fat for carbohydrate, 1951, 31 459
 time of ingestion of protein, carbohydrate and fat, 1951, 31 462
- NITROGEN METABOLISM**
 at high oxygen tension, 1945, 25 92
 in mammary gland, 1944, 24 361
- NITRO-2-METHYL-1,3-PROPANEDIOL**
 industrial health hazard, 1942, 22 177
- NITRO-2 METHYL-1 PROPANOL**
 industrial health hazard, 1942, 22 177
- NITRO-2 METHYLOL-1,3-PROPANEDIOL**
 industrial health hazard, 1942, 22 177
- NITROPARAFFINS**
 industrial health hazard, 1942, 22 177
- NITROPHENOL**
 permeability of collodion membranes to, 1936, 16 56
- NITROUS OXIDE**
 anesthetic gas, 1938, 18 448
- NON ELECTROLYTES**
 hemolysis, 1936, 16 36
 membrane permeability, 1936, 16 82
- NON PROTEIN NITROGEN**
 clinical significance of changes, 1940, 20 6
 of human and canine prostatic fluids, 1945, 25 285
 of synovial fluid and serum, 1940, 20 284
- NOXYLIC ACID**
 growth response of plant like flagellates 1941, 21 3
- NOR EPINEPHRINE**
 blood vessels, 1950, 30 189
 relation to acetylcholine and histamine, 1950, 30 190
 to epinephrine, 1950, 30 188
- NOR LEUCINE**
 antagonism to isoleucine + valine, 1947, 27 313

- NOR-VALINE**
antagonism to isoleucine + valine, 1947, 27 313
- NORTHOPE, J. H.** *The formation of enzymes*, 1937, 17 144
- NOSTAL**
anesthetic dose in various species, 1939, 19 496
- NOVASUROL**
urea clearance, 1941, 21 536
- NUCLEIC ACID**
blood flow in ear, 1936, 16 300
in kidney, 1936, 16 301
in spleen, 1936, 16 301
blood pressure, 1936, 16 297
changes in ageing, 1951, 31 277
derivatives, hyperemia, 1936, 16 316
leucocytosis, 1936, 16 307
potency, 1936, 16 312
response to injury, 1936, 16 317
shock, 1936, 16 318
stimulation of uterus, 1936, 16 306
electrocardiogram, 1936, 16 305
localization in cells, 1941, 21 252
physiological activity, 1936, 16 292
pulmonary artery blood flow, 1936, 16 300
staining methods for localization, 1941, 21 253
ultraviolet radiations, 1950, 30 436, 1950, 30 445
- NUCLEOPROTEINS**
cellular relations with phosphatase, 1946, 26 22
histochemistry, 1946, 26 4
protein synthesis, 1946, 26 19
ultraviolet radiation, 1950, 30 445
- NUCLEOTIDES**
composition, 1936, 16 293
heart tissue, 1936, 16 294
- NUCLEUS**
enzymes, 1941, 21 254
membrane, ultrastructure, 1939, 19 295
- NUTRITION**
definition, 1950, 30 513
environmental heat, 1947, 27 217
goiter, 1950, 30 513
growth of leukemic cells, 1946, 26 67
leukemia, 1946, 26 55
of invertebrates, 1941, 21 1
practical application of protein-sparing, 1951, 31 478
role of bread, 1944, 24 242
war and interest, 1944, 24 241
- NUTRITIONAL STATUS**
appraisal, 1945, 25 326
concept of normality, 1945, 25 334
methods of assessing, 1945, 25 329
optimum, 1945, 25 336
oral structures, 1945, 25 442
prevalence of sub-nutrition, 1945, 25 330
zones of, 1945, 25 327
- NUTRITURE** *see* **NUTRITIONAL STATUS**
- OATS**
extract, as substitute for insulin, 1949, 29 80
- OBESITY**
absorption of food, 1944, 24 27
anomalies of metabolism, 1944, 24 41
description, 1946, 26 541
endocrine dysfunction, 1944, 24 34
energy metabolism, 1944, 24 18
etiological aspects, 1944, 24 31
heredity vs environment, 1944, 24 40
hypothalamic, 1944, 24 32, 1946, 26 541
abnormalities of behavior, 1946, 26 541
heat production, 1946, 26 553
inactivity, 1946, 26 551
localization of lesions, 1946, 26 546
origin of hyperphagia, 1946, 26 557
pituitary, 1946, 26 544
luxurconsumption in, 1944, 24 22
mortality, 1944, 24 19
specific dynamic action of food, 1944, 24 20
static, 1944, 24 42
water balance, 1944, 24 24
- OCHOA, S.** Carboxylation and decarboxylation, 1951, 31 56
- OCTOPUS**
acetylcholine of nervous tissue, 1945, 25 628
- OCTYLIC ACID**
growth response of plant-like flagellates, 1941, 21 3
- OCULO-CARDIAC TEST**
autonomic stimulus, 1943, 23 21
- ODONTAGENTIC EPITHELIUM**
vitamin A deficiency, 1945, 25 443
- OGSTON, A. G.** Definition and meaning of pH, 1947, 27 228
- and **SMTTHIES, O.** Metabolic phosphorylation 1948, 28 283
- OLDS**
carcinogenesis, 1944, 24 179
- OLFACTORY DISCRIMINATION**
extirpation of parts of brain, 1939, 19 311
- OLFACTORY SENSE (INSECT)**
acuity, 1948, 28 226
humidity, 1948, 28 231
modalities and discrimination, 1948, 28 233
receptors, 1948, 28 225
threshold of response, 1948, 28 227
- ONION**
extract, as substitute for insulin, 1949, 29 82
- ONIUM SALTS**
action on invertebrate, 1936, 16 529
on nerve and muscle, 1936, 16 528
curariform action, 1936, 16 527
diffusion in muscle, 1936, 16 532
non-curariform, 1936, 16 530
- OPHTHALMOPLÉGIA**
exophthalmos, 1949, 29 270
- OPOSSUM**
changes in adrenals with reproduction, 1945, 25 207
number of fibers in optic nerve, 1942, 22 207
- OPSONINS**
macrophages, 1941, 21 130
- OPTIC CHIASHMA**
anatomy, 1942, 22 208
- OPTIC NERVES**
anatomy, 1942, 22 206
conduction, 1942, 22 207

- OPTIC TRACT**
 accessory, 1942, 22 210
 anatomy, 1942, 22 209
 fibers, termination in lateral geniculate body, 1942, 22 219
 tectal connections, 1942, 22 211
- OPTICAL LEVER MICROMANOMETER**
 for microrespiration, 1943, 23 54
- OPTICAL ROTATION**
 of proteins, irradiation, 1936, 16 677
- OPTICAL STIMULATION**
 brain oxygen consumption, 1936, 16 584
- OPTOCHIN**
 in avian malaria, 1942, 22 193
- ORBITAL MUSCLES**
 exophthalmos, 1949, 29 266
- ORNITHINE**
 cycle, in neurospora, 1945, 25 654
 source, in detoxication, 1939, 19 340
- ORTAL**
 anesthetic dose in various species, 1939, 19 496
- ORTHOPTERA**
 nutritional requirements, 1941, 21 15
- ORTHOSTATIC CIRCULATORY INSUFFICIENCY**
 prevention, 1943, 23 244
- OS PRIAPI**
 sex hormones and development, 1943, 23 153
- OSGOOD, E. E. and SEAMAN, A. J.** Cellular composition of bone marrow, 1944, 24 46
- OSMOSIS**
 positive and negative anomalous, 1936, 16 76
- OSMOTIC PRESSURE**
 urine volume, after birth, 1948, 28 334
 wound healing, 1936, 16 363
- OSTEOSCLEROSIS**
 with leukemia, erythrocyte production, 1942, 22 382
- OSTERHOUT, W. J. V.** Electrical phenomena in large plant cells, 1936, 16 216
- OVA**
 activation and parthenogenesis, 1951, 31 16
 activity, 1951, 31 17
 cleavage, 1951, 31 18
 fertilizability, 1951, 31 9
 follicular growth and maturation, 1951, 31 6
 formation in chicken, 1938, 18 481
 penetration of spermatozoa into, 1951, 31 10
 sensitivity to radiation, 1944, 24 231
 surface lysis by sperm, 1948, 28 208
 transport, 1951, 31 8
 unfertilized, fate, 1951, 31 15
- OVARIES**
 activity and uterine activity, 1937, 17 307
 ascorbic acid in, 1936, 16 447
 blood production in, 1942, 22 377
 follicle, estrogenic hormone of, 1938, 18 157
 follicle cells, hyaluronidase, 1948, 28 206
 follicular development, 1947, 27 95
 formation of estrogens by, 1938, 18 155
 histochemical changes during ovulation, 1946, 26 12
 17 ketosteroids, 1950, 30 346
 pregnancy, 1938, 18 585
 removal, sexual behavior and, 1947, 27 274
 silica of, 1938, 18 334
 toxemia of pregnancy, 1948, 28 4
 vitamin A distribution in, 1944, 24 216
- OVERMAN, R. R.** Ionic changes in disease, 1951, 31 285
- OVULATION**
 estrogen, progesterone, 1947, 27 110
 factors affecting, 1947, 27 104
 FSH and LH, 1947, 27 112
 in chicken, 1938, 18 484
 in mammals, 1951, 31 7
 in pregnancy, 1938, 18 589
 rhythm, 1949, 29 18
 super, 1947, 27 106
- OWLS**
 barn, alloxan diabetes, 1948, 28 306
 horned, alloxan diabetes 1948, 28 306
 vision in, 1937, 17 247
- Ox**
 acetylcholine of nervous tissue, 1945, 25 627
 brain, oxygen consumption, 1936, 16 577
 cholinesterase, brain cortex, 1946, 26 369
 in caudate nucleus, 1946, 26 369
 in nervous system, 1945, 25 629
 hemolysis of erythrocytes from, 1936, 16 38
 oxygen consumption of lens, 1937, 17 8
 pulse rate of fetus, new born and adult, 1936, 16 117
- OXALACETATE**
 decarboxylation, 1951, 31 82
 fixation of carbon dioxide, 1946, 26 214
 incorporation of CO₂, 1951, 31 90
 intermediary metabolite, 1941, 21 268
- OXALACETATE β -CARBOXYLASE**
 carbon dioxide fixation, 1946, 26 200
- OXALATE**
 anticoagulant, calcium, 1936, 16 654
 bacteriophage, 1936, 16 137
- OXALOSUCCINATE**
 decarboxylation, 1951, 31 84
 fixation of carbon dioxide, 1946, 26 216
- OXALOSUCCINATE CARBOXYLASE**
 carbon dioxide fixation, 1946, 26 206
- OXIDATION**
 cellular systems, 1939, 19 184
 enzymatic, mechanism, 1939, 19 222
 Michaelis two-step, 1939, 19 197
 synthesis of amino acids, 1939, 19 225
- OXIDATION REDUCTION**
 balance, proteolysis, synthesis, 1938, 18 193
 electroactive, 1939, 19 214
 enzymatic sluggish, 1939, 19 205, 1939, 19 213
 equilibrium, law of mass action, 1938, 18 517
 in cellular respiration, 1939, 19 211
 potentials, of hemins and hemochromogens, 1939, 19 193
 reactions, of irradiated protein solutions, 1936, 16 680
 series, in cellular respiration, 1939, 19 220
 sluggish, 1939, 19 198, 1939, 19 211
 systems, biologically important, 1939, 19 185
- OXIDIZING AGENTS**
 denaturation of proteins, 1936, 16 673

OXYGEN

- at atmospheric pressure, adverse effects, 1945, 25 44
- body temperature and action, 1946, 26 267
- exchange between mother and fetus, 1936, 16 118
- gastric absorption, 1948, 28 443
- homeostasis, theory, 1951, 31 421
- of blood, development, 1944, 24 288
 - response to shift from air or low O_2 , 1945, 25 46
- solubility in tissues, 1947, 27 369
- synthesis of acetylcholine, 1945, 25 619
- transfer from maternal to fetal blood, 1936, 16 125
- transport by erythrocytes, 1951, 31 374

OXYGEN CAPACITY

- of blood of diving mammals, 1939, 19 119

OXYGEN CONSUMPTION

- blood flow, epinephrine, 1951, 31 172
- cytochrome c concentration, 1951, 31 417
- initial length of heart, 1936, 16 633
- of brain, 1936, 16 577
- of brain cortex slices, 1939, 19 143
 - in vitro, 1939, 19 140
 - temperature, 1939, 19 145
 - in vivo, 1939, 19 138
- of denervated muscle, 1939, 19 23
- of fetus, 1936, 16 116
- of lens, 1937, 17 8
- of muscle, in vitamin E deficiency, 1943, 23 40
- of prostate gland, 1945, 25 288
- of tissue slices, selenium, 1943, 23 326
- oxygen tension, 1945, 25 5
- testis extracts and, 1937, 17 155
- total ventilation and, during late exercise, 1950, 30 222
- total, on vitamin E deficiency diet, 1943, 23 41
- vascularity in brain, 1936, 16 582
- work of heart, 1936, 16 601

OXYGEN SATURATION

- arterial blood, altitude, 1943, 23 174
 - multiple embolism of lung, 1950, 30 478
- of blood in fetus, 1936, 16 112
- of umbilical artery blood, 1936, 16 124
- of umbilical vein blood, 1936, 16 122

OXYGEN TENSION

- of blood during exercise and respiration, 1940, 20 137
- respiratory movements, 1947, 27 10

OXYGEN TENSION, HIGH

- acclimatization and tolerance, 1945, 25 35
- adverse effects from exposure to compressed air, 1945, 25 49
- blood studies, 1945, 25 19
- carbon dioxide as etiological factor in response, 1945, 25 120
- circulation, 1945, 25 13
- decreased metabolism and etiology, 1945, 25 129
- enzymes, 1945, 25 23
- factors influencing response, 1945, 25 94
- in therapy, 1945, 25 111
- induction of, 1945, 25 3
- metabolism, 1945, 25 3
- pathological effects, 1945, 25 24
- plus one atmosphere, blood pressure, 1945, 25 95
 - blood vessels, blood flow, 1945, 25 98

- body temperature, 1945, 25 93
- C.N.S., 1945, 25 119
- circulation, 1945, 25 95
- convulsive seizures, 1945, 25 78
- enzymes, 1945, 25 101
- etiology of reactions to, 1945, 25 113
- isolated tissues, 1945, 25 103
- pathology, 1945, 25 105
- pulse rate, 1945, 25 95
- respiration, 1945, 25 88
- respiratory exchange, 1945, 25 91
- psychological factors, 1945, 25 137
- reactions to compressed air, 1945, 25 60
- respiration, 1945, 25 9
- tissue pH and response, 1945, 25 127
- toxic substances, 1945, 25 136
- vascular changes, 1945, 25 16

OXYGEN THERAPY

- noxious effects, 1945, 25 40

OXYSTERIODS (11- and 17-)

- deficiency, induced by DCA, 1950, 30 307
- toxicity, 1950, 30 302

OXYTHIAMINE

- antagonism to thiamin, 1947, 27 314

OXYTOXIC HORMONE

- neurohypophysis, 1948, 28 147

P
PACEMAKERS
PAD

- central, 1947, 27 192
- concepts concerning, 1947, 27 167
- cutaneous, factors influencing threshold, 1947, 27 172
 - itching, 1941, 21 359, 1941, 21 362
 - threshold in man, 1947, 27 172
 - types, 1947, 27 177
- deep, categories, 1947, 27 191
 - localization and spread, 1947, 27 185
 - nonspecific quality, 1947, 27 181
 - rigidity and tenderness, 1947, 27 184
 - surface hyperalgesia, 1947, 27 188
 - surface hyperesthesia, 1947, 27 188
 - true visceral, 1947, 27 182
 - visceral and somatic, 1947, 27 180
- definition of cutaneous sense, 1946, 26 79
- determination of intensity, 1947, 27 175
- dolor, physico-chemical basis, 1936, 16 375
- dual aspects, 1947, 27 192
 - mediated by articular nerves, 1950, 30 145
- methods of measuring, 1947, 27 171
- nature, 1947, 27 167
- neural mechanisms, 1946, 26 78
- neural structures involved, 1947, 27 168
- protopathic, itching, 1941, 21 361
- quality, 1947, 27 169
- thresholds, 1946, 26 89, 1947, 27 170
- visceral and somatic, 1947, 27 180
- wound healing, 1936, 16 371

PALLADIUM

- detection in cells, 1941, 21 245

PANCREAS

- beta cells, degeneration, diet and 1949, 29 60

PANCREAS

- carbohydrate metabolism, 1941, 21 162
- carbonic anhydrase in, 1946, 26 567
- destruction, 1949, 29 54
 - by toxins, 1949, 29 67
- diabetes, granule content, 1949, 29 52
- exhaustion, 1949, 29 54
- glucose, 1949, 29 55
 - glutathione, 1949, 29 61
 - metabolism, 1949, 29 66
- glucose tolerance, 1938, 18 278
- histochemical studies, 1941, 21 256
- insulin of, 1944, 24 409
 - age, 1944, 24 414
 - anesthesia, 1944, 24 415
 - diet, 1944, 24 417
 - distribution, 1944, 24 415
 - endocrines, 1944, 24 422
 - fat, 1944, 24 418
 - human diabetes, 1949, 29 53
 - inanutition, 1944, 24 417
 - infection, 1944, 24 416
 - ligation of ducts, 1944, 24 415
 - protein, 1944, 24 418
 - seasonal variation, 1944, 24 415
 - sugar, 1944, 24 418
 - tumors, 1944, 24 416
 - vitamin deficiency, 1944, 24 421
 - zinc, 1944, 24 417
- lactation, 1936, 16 512, 1944, 24 353
- pathology in alloxan diabetes, 1948, 28 313
- phlorhizin, 1945, 25 261
- silica of, 1938, 18 334
- wound healing, 1936, 16 386

PANCREATICTOMY

- brain, R Q., 1936, 16 580
- partial, insulin of pancreas, 1944, 24 434

PANCREATIC JUICE

- lipotropic action in depancreatized dog, 1944, 24 155
- morphine, 1937, 17 639
- stimulation by secretin, 1950, 30 52
 - enzymes of, 1950, 30 53

PANCREOZYMIN

- atropine, 1950, 30 57
- definition, 1950, 30 56
- physiologic properties, 1950, 30 57
- preparation, 1950, 30 57
- site of formation, 1950, 30 56

PANETH CELLS

- function, 1941, 21 57

PANTO-AMIDES

- antagonism to pantothenic acid, 1947, 27 313

PANTOTHENIC ACID

- achromotrichia, 1948, 28 371
- analogs, 1945, 25 700
- antagonistic structural analogs, 1947, 27 313
- deficiency, oral structures, 1945, 25 449
 - tissue changes, 1942, 22 271
- microbiological assay, 1948, 28 257
 - extraction procedure, 1948, 28 271
- of white, enriched white, and whole wheat flours
 - 1944, 24 272

pellagra, 1940, 20 261

plant growth, 1938, 18 539

storage in liver, 1942, 22 60

PANTOTHENYL ALCOHOL

antagonism to pantothenic acid, 1947, 27 313

PANTOYL TAURINE *see* THIOPANIC ACID**PAPAIN**

reversible inactivation, 1937, 17 455

PAPPENHEIMER, A M Muscular disorders and vitamin E deficiency, 1943, 23 37**PARADIONE**

as antiepileptic, 1948, 28 422

PARAFFINS

as industrial health hazard, 1942, 22 170

liquid, absorption of fat soluble vitamins, 1948, 28 108

PARALDEHYDE

urinary coproporphyrins, 1947, 27 497

PARALYSIS AGITANS

experimental production in monkeys, 1950, 30 464

lesion, 1950, 30 465

PARAMECIA

ultraviolet radiation, 1950, 30 443

PARASITIC WORMS

acquired immunity to, 1940, 20 469

PARASYMPATHETIC NERVOUS SYSTEM

drugs affecting, 1937, 17 373

PARASYMPATHOMIMETIC DRUGS

site of action, 1937, 17 392

PARATHYROID GLAND

bone growth, 1937, 17 136

silica of, 1938, 18 334

wound healing, 1936, 16 386

PARATHYROID HORMONE

calcification, 1940, 20 546

organic phosphates of blood, 1941, 21 431

toxemia of pregnancy, 1948, 28 3

PARKEE, A S The adrenal gonad relationship, 1945, 25 203**PARS NERVOSA** *see* POSTERIOR PITUITARY GLAND**PARTHENOGENESIS**

activation of ova, 1951, 31 16

PARTITION HYPOTHESES

of intestinal absorption, 1946, 26 104

PARTURITION

control by higher center, 1951, 31 255

induction, 1938, 18 581

inhibition, 1938, 18 580

initiation, 1938, 18 578

leukocyte count, 1943, 23 295

uterine changes, 1938, 18 582

PATTEN, B M Early changes in embryonic heart beat, 1949, 29 31**PATTERSON, JEAN M** *see* MCHENRY, E W**PAULING, L, CAMPBELL, D H. and PRESSMAN, D** Antigen, antibody and precipitation reaction 1943, 23 203**PEANUT MEAL**

nicotinic acid of, 1940, 20 264

PEANUTS

goiter, 1950, 30 527

- PEAS**
extract, as substitute for insulin, 1949, 29 82
goiter, 1950, 30 527
- PELLAGRA**
definition, 1940, 20 259
fohic acid, 1948, 28 91
history of studies, 1940, 20 249
nicotinic acid, 1940, 20 249
porphyrins, 1940, 20 452
secondary, niacin deficiency, 1945, 25 448
- PELVIS**
sex hormones, 1943, 23 148
- PENIS**
androgens, 1937, 17 163, 1937, 17 198
local action of estrogens, 1948, 28 37
- PENTA CHLORETHANE**
industrial health hazard, 1942, 22 176
- PENTOSURIA**
familial tendency, 1944, 24 174
- PENTAMETHYLENETETRAZOL** *see* METRAZOL
- PENTOBARBITAL**
anesthetic dose in various species, 1939, 19 496
- PENTOTHAL** *see* THIOPENTOL
- PEPSIN**
formation from acetyl pepsin, 1937, 17 145
from pepsinogen, 1937, 17 149
hormonal control of secretion, 1950, 30 78
inactivation, 1937, 17 146
localization in cells, 1941, 21 247
- PEPSITENSIN**
description, 1947, 27 140
- PEPTIDASES**
di-, autolytic enzyme, 1938, 18 190
in intestinal secretion, 1941, 21 48
localization in cells, 1941, 21 247
metallic ions, 1950, 30 410
- PEPTIDES**
synthesis, plastein formation, 1950, 30 206
- PERIARTERITIS NODOSA**
allergic basis, 1950, 30 306
- PERIODATE**
mucoid inhibitors, 1951, 31 144
- PERIODONTAL DISEASE**
nutritional status of patient and, 1945, 25 469
physical character of food, 1945, 25 467
vitamin C deficiency, 1945, 25 455
- PERIODONTAL STRUCTURES**
fluorosis, 1945, 25 464
membrane, vitamin D deficiency, 1945, 25 456
- PERIPHERAL NERVES**
function after arrest of circulation, 1950, 30 385
- PERIPHERAL NEUROPATHY**
hyperalgesia, 1947, 27 179
- PERISTALSIS**
morphine, 1937, 17 629
- PERIURETHRAL TISSUE**
action of androgens on, 1937, 17 199
- PERMEABILITY**
cellular, androgens, 1937, 17 216
evidence from salt potentials, 1936, 16 464
gastro-intestinal, anoxia, 1941, 21 314
membrane, negative adsorption, 1936, 16 63
selective ion, 1936, 16 71
to solutes, 1936, 16 52
- PEROSIS**
choline, 1944, 24 149
- PEROXIDASES**
metallic ions, 1950, 30 405
nature, 1939, 19 220
- PETERS, J P** Water exchange, 1944, 24 491
- PETERSON, W E** Lactation, 1944, 24 340
- PFAUNDLER HURLER'S DISEASE** *see* GARGOYLISM
- PFEIFFER, C A.** *see* GARDNER, W U
- PHAGOCYTOSIS**
by epithelium of bronchial mucosa, 1941, 21 133
cells engaging in, 1941, 21 116
in invertebrates, 1940, 20 76
in lung, 1941, 21 112, 1941, 21 134
intravascular, 1941, 21 132
of living and non living material, 1941, 21 120
- PHANODORN**
anesthetic dose in various species, 1939, 19 496
- PHENACETYLUREA**
as antiepileptic, 1948, 28 423
- PHENAZINE**
antagonism to riboflavin, 1947, 27 313
- PHENOBARBITAL**
anesthetic dose in various species, 1939, 19 496
antiepileptic, 1948, 28 417
industrial health hazard, 1942, 22 179
- PHENOL OXIDASE**
inactivation of sympathomimetic amines, 1946, 26 180
- PHENOL RED**
tubular excretion, 1939, 19 65, 1939, 19 83
- PHENOLS**
bacteriophage, 1936, 16 137
detoxication, 1939, 19 329
permeability of collodion membranes to, 1936, 16 56
- PHENURONE** *see* PHENACETYLUREA
- 2 N-PHENYL-N-BENZYLAMINOMETHYLMIDAZOLINE** *see* ANTISTINE
- n-PHENYL-N-BENZYL-N',N'-DIMETHYLETHYLENEDI-AMINE** *see* ANTERGAN
- PHENYL BUTYRIC ACID**
antagonism to indoleacetic acid, 1947, 27 313
- 5,5-PHENYL ETHYL BARBITURIC ACID** *see* PHENOBARBITAL
- n PHENYL-N ETHYL-N',N'-DIMETHYLETHYLENEDI-AMINE** *see* 2325 R.P
- PHENYL PANTOTHENONE**
antagonism to pantothenic acid, 1947, 27 313
- PHENYL STILBESTROL** *see* STILBESTROLS
- PHENYL THIENYL HYDANTOIN**
as antiepileptic, 1948, 28 421
- n PHENYL-N,N',N'-TRIETHYLETHYLENEDIAMINE** *see* 1571 F
- PHENYLALANINE**
antagonism to isoleucine + valine, 1947, 27 313
antagonistic structural analogs, 1947, 27 313
essential amino acid, 1938, 18 124
in ergot alkaloids, 1938, 18 306

- PHENYLALANINE**
 metabolic inhibition by thienylalanine, 1945, 25 698
 microbiological assay, 1949, 29 247, 1949, 29 255
- p-PHENYLENEDIAMINE**
 Qo, of brain, 1939, 19 149
- PHENYLHYDRAZINE**
 as industrial health hazard, 1942, 22 186
- PHENYLPIYRUVIC OLIGOPHRENTA**
 melanin formation, 1950, 30 121
- PHLOGOSIN**
 definition, 1938, 18 378
- PHLORETIN**
 comparison of action with phlorhuzan, 1945, 25 275
- PHLORHIZIN**
 adrenal glands, 1945, 25 263
 blood, 1945, 25 264
 body fluids and secretions, 1945, 25 264
 D N ratio, 1945, 25 265
 determination, 1945, 25 256
 dosage to produce glucosuria, 1945, 25 255
 drugs and activity, 1945, 25 275
 glucosuria, 1945, 25 255
 evaluation, 1945, 25 276
 in animals with ureteral ligation, 1945, 25 260
 in nephrectomized animal, 1945, 25 260
 intermediary metabolism, 1945, 25 267
 ketone body utilization, 1945, 25 415
 kidney, 1945, 25 260
 liver, 1945, 25 261
 mechanism of action, 1945, 25 256
 pancreas, 1945, 25 261
 phospholipid turnover, 1942, 22 306
 pituitary gland, 1945, 25 262
 thyroid, 1945, 25 263
 gluconeogenesis, 1941, 21 147
- PHLOICETIN**
 oxidation reduction potentials, 1939, 19 197
- PROPHAGEN**
 in heart, 1936, 16 621
- PROPHANTIC ACID**
 antagonism to p-aminobenzoic acid, 1947, 27 312
- PHOSPHATASES**
 acid, of urine, 1951, 31 43
 activity, estrogens and androgens, 1943, 23 141
 fructose formation, 1951, 31 46
 alkaline, metallic ions, 1950, 30 420
 of semen, 1951, 31 45
 cellular relation to glycogen, 1946, 26 24
 to nucleoproteins, 1946, 26 22
 clinical significance of changes, 1940, 20 29
 histochemical studies, 1946, 26 15
 metallic ions, 1950, 30 419
 of human and canine prostatic fluids, 1945, 25 285
 thyroxin, 1951, 31 216
 zinc in, 1949, 29 380
- PHOSPHATE**
 carriers for, 1948, 28 296
 detection in cells, 1941, 21 243
 metabolism of hexoses, 1936, 16 187
 muscle permeability, 1936, 16 463
- PHOSPHATIDES**
 glycerophosphate in, 1946, 26 280
- mono-, enzymatic hydrolysis, 1946, 26 291
 of acid fast bacteria, definition, 1946, 26 276
- PHOSPHATIDIC ACIDS**
 chemistry, 1946, 26 283
 definition, 1946, 26 276
- PHOSPHATIDYLETHANOLAMINE**
 chemistry, 1946, 26 280
- PHOSPHOBETAINE HYDROCHLORIDE** *see* BETAINE COMPOUNDS
- PHOSPHOCHOLINE CHLORIDE** *see* CHOLINE COMPOUNDS
- PHOSPHOCREATINE**
 buffer theory of hydrolysis, 1941, 21 223
 muscular contraction, 1941, 21 219
 of muscle and plasma, 1936, 16 455
- PHOSPHOGLUCOMUTASE**
 metallic ions, 1950, 30 422
- PHOSPHOGLUCONIC ACID**
 decarboxylation, 1951, 31 97
- PHOSPHOGLYCERATE**
 oxidation in brain, 1939, 19 166
- PHOSPHOLIPIDS**
 determination, 1946, 26 310
 experiments with P³², 1946, 26 291
 fatty acids of, labeling, 1942, 22 311
 fatty acid transport and metabolism, 1946, 26 289
 formation, adrenal gland, 1942, 22 306
 cellular oxidation, 1942, 22 307
 from inorganic phosphorus, 1942, 22 308
 in vitro, 1942, 22 306
 intermediates, 1942, 22 310
 isotopic, metabolism, 1940, 20 232
 metabolism, hormones, 1946, 26 290
 tracer studies, 1942, 22 291
 of aorta, in atherosclerosis, 1943, 23 189
 of blood, clinical significance of changes, 1940, 20 14
 of plasma, phosphorylation in liver, 1942, 22 302
 turnover, 1942, 22 294
 Hevesy measurement, 1942, 22 298
 in liver, lipotropic action, 1942, 22 300
 mathematical expression, 1942, 22 299
- PHOSPHORESCENT LIGHT**
 wound healing, 1936, 16 378
- PHOSPHORIBOFLAVIN PROTEIN**
 oxidation reduction potentials, 1939, 19 197
- PHOSPHOROCLASTIC REACTION**
 carbon dioxide fixation, 1946, 26 202
- PHOSPHORUS**
 clinical significance of changes, 1940, 20 28
 isotopic, preparation of compounds with, 1940, 20 225
 maintenance requirements, 1940, 20 541
 metabolism, estrogens, androgens, 1943, 23 139,
 1943, 23 141
 in heart, 1936, 16 619
 in normal infant, 1939, 19 421
 of adrenal cortex, rate of hormone secretion, 1950, 30 250
 of bone, 1937, 17 120
 of cells at various ages, 1943, 23 81
 of muscle, denervation, 1939, 19 19
 of synovial fluid and serum, 1940, 20 284

- of white, enriched white, and whole wheat flours, 1944, 24 272
- radioactive, phosphate-dose effects, 1942, 22 293
- properties, 1942, 22 292
- quantitative measures of phospholipid turnover, 1942, 22 294
- radiation effects, 1942, 22 292
- therapeutic use, 1944, 24 225
- requirement of man, 1940, 20 541
- role in muscular contraction, 1941, 21 219
- PHOSPHORUS POISONING**
- carbohydrate metabolism, 1939, 19 463
- porphyrins, 1940, 20 457
- PHOSPHORYLASES**
- metallic ions, 1950, 30 419
- PHOSPHORYLATION**
- anaerobic glycolysis, 1948, 28 286
- carbohydrate oxidation, 1948, 28 289
- in muscle, 1940, 20 242
- kinetic problems, 1948, 28 300
- mechanisms, 1948, 28 294
- metabolic, thermodynamic and kinetic aspects, 1948, 28 283
- of lipids, in intact animal, 1942, 22 299
- PHOSPHORYLCHOLINE** *see* CHOLINE COMPOUNDS
- PHOTOLYSIS**
- of proteins, irradiation, 1950, 30 440
- PHOTOPHOBIA**
- light, 1945, 25 513
- PHOTOSENSITIVITY**
- of skin, urinary coproporphyrins, 1947, 27 498
- PHOTOSENSITIZATION**
- irradiation of proteins, 1936, 16 676
- PHOTOSYNTHESIS**
- studies of radioactive carbon, 1946, 26 122
- PHTHICOL**
- oxidation reduction potentials, 1939, 19 197
- PHTHIC ACID**
- chemistry, 1946, 26 279
- PHYSALIA FILAMENTS**
- velocity of conduction in nerve nets, 1946, 26 339
- PHYSOSTIGMINE**
- antagonism to curare, 1947, 27 467
- arthropod nervous system, 1946, 26 469
- atropine, 1945, 25 610
- C.N.S., 1945, 25 602
- intestinal secretion, 1941, 21 55
- parasympathetic nervous system, 1937, 17 387
- potentiation of transmission, 1937, 17 497
- site of action, 1937, 17 392
- transmission, 1937, 17 546
- PHYTOMONIC ACID**
- chemistry, 1946, 26 279
- PI SU'NER, A.** Regulation of respiratory movements by chemo-receptors, 1947, 27 1
- PICKFORD, MARY** Secretion of antidiuretic hormone of pituitary, 1945, 25 573
- β -PICOLINE**
- anti black tongue activity, 1940, 20 258
- PICOLINIC ACID**
- anti black tongue activity, 1940, 20 258
- PICROTOXIN**
- water diuresis, 1945, 25 585
- PIG** *see* SWINE
- in large plant cells, 1936, 16 229
- PIGEON**
- acetylcholine of nervous tissue, 1945, 25 627
- alloxan diabetes, 1948, 28 306
- anaphylaxis, 1941, 21 580
- anesthetic dose, 1939, 19 497
- blood production, 1942, 22 378
- brain, Qo, with p-phenylenediamine, 1939, 19 149
- changes in adrenals with reproduction, 1945 25 206
- sex hormones and skeletal structure, 1943, 23 144
- PIGMENTATION**
- chemistry, 1948, 28 377
- of hair, 1939, 19 101
- pattern, melanophores, 1948, 28 391
- PIGMENTS**
- anon-rufus, oxidation-reduction potentials, 1939, 19 197
- in tissue culture, 1937, 17 605
- of serum, clinical significance of changes, 1940, 20 15
- PILOCARPINE**
- antagonism to atropine, 1937, 17 380
- arthropod nervous system, 1946, 26 467
- gastric absorption, 1948, 28 437
- intestinal secretion, 1941, 21 54
- parasympathetic nervous system, 1937, 17 383
- prostatic secretion, 1945, 25 284
- site of action, 1937, 17 392
- PINCUS, G.** *see* CHANG, M. C.
- PINEAL BODY**
- silica of, 1938, 18 334
- PIPERIDINOMETHYLBENZEDIONE** *see* F 933
- PITOCIN**
- neurohypophysis, 1948, 28 154
- PITRESSIN**
- coronary blood flow, 1946, 26 42
- neurohypophysis, 1948, 28 154
- PITT RIVERS, ROSALIND** Mode of action of antithyroid compounds, 1950, 30 194
- PITTS, R. F.** Organization of the respiratory center, 1946, 26 609
- PITUITARY GLAND**
- adrenal cortex, 1940, 20 493
- adrenocortical function, 1940, 20 497
- adrenocortical size, 1940, 20 495
- anatomical divisions, 1945, 25 573, 1948, 28 140
- ascorbic acid in, 1936, 16 446
- calcification, 1940, 20 552
- hypothalamic obesity, 1946, 26 544
- intermediary metabolism, 1940, 20 503
- 17-ketosteroids of urine, 1950, 30 345
- neural control, 1948, 28 139
- obesity due to injury, 1944, 24 36
- phlorhizin, 1945, 25 262
- regulation of adrenocorticotrophic activity, 1950, 30 268
- secretion of antidiuretic hormone by, 1945, 25 573
- silica of, 1938, 18 334

PITUITARY GLAND

- stalk, nerve supply of, 1948, 28 140
- wound healing, 1936, 16 387

PITUITARY HORMONES

- melanin formation, 1950, 30 113
- toxemia of pregnancy, 1948, 28 1

PITUITRIN

- neurohypophysis, 1948, 28 154
- release of acetylcholine, 1945, 25 624
- uterine contractility, 1951, 31 258

PLACENTA

- blood flow through and circulation, 1936, 16 115
- carbohydrate metabolism, 1941, 21 446
- estrogenic hormone from, 1938, 18 166, 1938, 18 420
- gonadotropic hormone from, 1938, 18 427
- hormonal production by, 1938, 18 419
- lipid metabolism, 1941, 21 448
- mammary gland development, 1944, 24 345
- mineral metabolism, 1941, 21 451
- nutrition of fetus, 1941, 21 444
- permeability, barbiturates, 1939, 19 478
- pregnancy, 1938, 18 587
- protein metabolism, 1941, 21 450
- retained, hormonal production by, 1938, 18 439
- silica of, 1938, 18 334
- toxemia of pregnancy, 1948, 28 4
- transport of fat across, 1939, 19 568
- transport of iron, ferritin, 1951, 31 499
- types, 1941, 21 438

PLACENTAL EXTRACTS

- differences from anterior pituitary extracts, 1938, 18 433
- potentiation of anterior pituitary extract, 1938, 18 434
- secondary sexual characteristics, 1938, 18 433

PLANTS

- absorption of selenium, 1943, 23 308
- ascorbic acid, calcium, and catheptic enzymes, 1943, 23 94
- cytoplasm, cell surfaces, 1943, 23 81
- asymmetrical growth, 1938, 18 532
- auxins, 1938, 18 532
- calcium and boundary structure of cells, 1943, 23 78
- carbon dioxide metabolism, 1946, 26 120
- cells, electrical phenomena in, 1936, 16 216
- chemical nature of cells, 1943, 23 85
- factors needed for growth, 1938, 18 536
- growth, ascorbic acid, 1938, 18 539
- biotin, 1938, 18 539
- carbohydrates, 1938, 18 536
- hormones, 1938, 18 524
- pantothenic acid, 1938, 18 539
- thiamin, 1938, 18 538
- vitamin A, 1938, 18 539
- loss of ascorbic acid in metabolism, 1943, 23 88
- proteins, 1945, 25 347
- silicon in, 1938, 18 332
- wound hormones from, 1938, 18 540

PLASMA CONSTITUENTS *see also under name of constituent*

- proteins, amino acids and formation of, 1940, 20 202
- calcium of, 1936, 16 649

- change in disease, 1940, 20 196
- diurnal variation, 1949, 29 13
- electrophoretic analysis of, 1947, 27 625
- endogenous nitrogen materials, 1940, 20 205
- food protein, 1940, 20 197
- mechanism of formation, 1940, 20 211
- regeneration, 1940, 20 206
- site of formation, 1940, 20 194

PLASMA VOLUME

- adrenalectomy, 1944, 24 94

PLASMOGENS

- chemistry, 1946, 26 281
- definition, 1946, 26 275
- hydrolysis products, 1946, 26 282
- properties, 1946, 26 283
- structure, 1946, 26 283

PLASMAPHERESIS

- regeneration of plasma proteins, 1940, 20 206

PLASMOCHIN

- in avian malaria, 1942, 22 197

PLASTIN

- formation, 1950, 30 206

PLASTIN FORMATION *see* PROTEIN METABOLISM

PLATELETS

- intravascular agglutination, 1951, 31 107
- lysis of, calcium, 1936, 16 658

PLATHELMINTHES

- nutrition, 1941, 21 25

PLATYPUS

- duration of dives by, 1939, 19 115

PLETHORA

- venous pressure, 1950, 30 18

PLEUROBRANCHIAE

- velocity of nerve conduction, 1946, 26 340

PNEUMOCOCCUS

- macrophages, 1941, 21 128

PNEUMONIA

- oxygen administration, 1945, 25 40
- pneumococcus, macrophages, 1941, 21 128

P/O RATIO

- brain dispersions, 1948, 28 291
- heart muscle preparations, 1948, 28 292
- phosphorylation, 1948, 28 291

POCKET GOPHER

- sex differences in pelvis, 1943, 23 149

POIKILOTHERMS

- C.N.S. stimulants, 1946, 26 255
- drug action, 1946, 26 249
- insulin action, 1946, 26 263
- physiological effects of temperature, 1946, 26 248

POLARIZATION OPTICS

- determination of ultrastructure of protoplasm, 1939, 19 273

POLAROGRAPHY

- microrespiration, 1943, 23 59

POLYCYTHEMIAS

- pathogenesis, 1951, 31 382
- pathological hemoglobins, 1951, 31 414
- porphyrias, 1940, 20 452
- therapeutic use of radioactive isotopes, 1944, 24 226

POLYPHENOL OXIDASE

- nature, 1939, 19 220

- PONDER, E** The kinetics of hemolysis, 1936, 16 19
- POXS**
silica of, 1938, 18 334
- POPPER, H.** Distribution of vitamin A in tissue, 1944 24 205
- PORIFERA**
acetylcholine of tissues, 1946, 26 372
cholesterase in nervous and neuromuscular tissues 1946, 26 370
- PORPHYRIA**
acute, 1940, 20 439
description, 1947, 27 492
chronic, 1940, 20 442
congenital, 1940, 20 436
description, 1947, 27 489
fever 1940, 20 443
in liver disease, 1940, 20 444
types, 1940, 20 435
- PORPHYRINS**
antagonistic structural analogs, 1947, 27 313
barbiturates, 1940, 20 458
chemical and physical properties, 1940, 20 424
chemistry, 1940, 20 416
chromoprotein metabolism, 1950, 31 398
dibenzanthracene, 1940, 20 458
in aplastic anemia, 1940, 20 449
in bile, 1940, 20 433
in diseases of skin, 1940, 20 453
in health and disease, 1940, 20 416
in hemolytic jaundice, 1940, 20 447
in Hodgkin's disease, 1940, 20 451
in lead poisoning, 1940, 20 454
in leukemia, 1940, 20 451
in mental disease, 1940, 20 454
in pellagra, 1940, 20 452
in pernicious anemia, 1940, 20 446
in phosphorus poisoning, 1940, 20 457
in polycythemia, 1940, 20 452
in salvarsan poisoning, 1940, 20 457
in selenium poisoning, 1940, 20 457
in sprue, 1940, 20 453
in sulfonal poisoning, 1940, 20 456
lacking vinyl groups, antagonism to hematin, 1947, 27 313
antagonism to protoporphyrin, 1947, 27 313
metabolism, alcohol, 1940, 20 457 1947, 27 484
normal excretion, 1940, 20 433
occurrence in nature, 1940, 20 426
of feces, separation, purification and identification, 1940, 20 427
of urine, metabolism, 1940, 20 435
overproduction of underutilization, 1951, 31 410
physical constants, 1940, 20 425
physiology, 1940, 20 429
structural formulas, 1940, 20 418
sulfonamides, 1940, 20 458
zinc compounds, 1949, 29 380
- PORPOISE**
metabolic rate per day, 1947, 27 529
oxygen capacity of blood, 1939, 19 119
- POSITION**
motion sickness, 1949, 29 326
- POSTERIOR PITUITARY GLAND**
adrenal cortex, anterior pituitary and, in diabetes insipidus, 1949, 29 292
anatomy, 1945, 25 575
definition, 1948, 28 140
direct stimulation of nerve fibers, 1945, 25 580
estrogen action on uterus, 1937, 17 314
hormones, cerebral blood flow, 1936, 16 553
toxemia of pregnancy, 1948, 28 2
lactation, 1936, 16 512
lesions, 1945, 25 577
pars nervosa, neurohypophysis, 1945, 25 573, 1948, 28 140
pregnancy, 1938, 18 588
secretion of antidiuretic hormone, 1945, 25 573
water balance, 1944, 24 510
see also NEUROHYPOPHYSIS
- POSTURE**
compensation, pathological failures, 1943, 23 237
control in spinal cord, 1944, 24 10
orthostatic circulatory insufficiency, 1943, 23 234
poor, handicap of physiologic function, 1943, 23 222
penalties, 1943, 23 220
respiratory changes, 1943, 23 235
sway, 1943, 23 226
factors influencing, 1943, 23 226
tests and measurements, 1943, 23 224
vertical stance of man, 1943, 23 220
water balance, 1944, 24 521
- POTASSIUM**
adrenal cortex, 1940, 20 395
adrenal insufficiency, 1951, 31 288
adrenalectomy, 1944, 24 94
antagonism to veratrum alkaloids, 1946, 26 426
asphyxia, 1940, 20 393
balance in body, 1940, 20 381
behavior in electrical phenomena in plant cells, 1936, 16 220
bound, in muscle, 1936, 16 469
carbohydrate metabolism, 1940, 20 396, 1951, 31 292
clinical significance of changes, 1940, 20 23
detection in cells, 1941, 21 243
epinephrine, 1940, 20 391
excretion, 1944, 24 507
growth, 1940, 20 385
hemorrhage, 1940, 20 394
in dehydration, 1951, 31 291
in diet, 1940, 20 382
in disease, 1951, 31 285
in interior of cells, 1940, 20 378
in physiological processes, 1940, 20 377
in renal disease, 1951, 31 296
in shock, 1942, 22 108
ingested, 1940, 20 382
toxicity, 1940, 20 383
isotopic studies with, 1940, 20 379
location in muscle, 1936, 16 468
muscle contraction, 1940, 20 385
muscle function, 1940, 20 400
muscular weakness and paralysis, 1951, 31 294
nerve function, 1940, 20 398

POTASSIUM

- neuromuscular transmission, 1940, 20 387
- normal distribution, 1951, 31 286
- of blood, 1940, 20 402
 - turnover, 1940, 20 382
- of cells, adrenalectomy, 1944, 24 96
- of human and canine prostatic fluids, 1945, 25 285
- of muscle and plasma, 1936, 16 455
- of muscle, denervation, 1939, 19 17
- of normal muscle, 1936, 16 467
- of synovial fluid and serum, 1940, 20 284
- of white, enriched white, and whole wheat flours, 1944, 24 272
- permeability of muscle, 1936, 16 461
- release of acetylcholine, 1945, 25 624
- shock, 1940, 20 394
- synthesis of acetylcholine, 1945, 25 621
- transport, in animal cells, 1949, 29 133
- versus sodium chloride in muscle, 1936, 16 471

POTASSIUM CHLORIDE

- diffusion potentials, 1936, 16 66

POTASSIUM CYANIDE

- bacteriophage, 1936, 16 137

POTASSIUM SULFATE

- diffusion potentials, 1936, 16 66

POTTER, V. R. and HEIDELBERGER, C. Metabolites, 1950, 30 487

POULTRY *see* FOWLS

PRECIPITATE

- antibody antigen, valence of antibody, 1943, 23 210
- in precipitin reaction, nature, 1943, 23 208

PRECIPITIN REACTION

- nature, 1943, 23 208
- quantitative theories, 1943, 23 213

PRECIPITINS

- functional significance, 1940, 20 89
- immunity to parasitic worms, 1940, 20 480

PREFRONTAL LOBOTOMY

- 17-ketosteroids, 1950, 30 364

PREGNANCY

- calcification, 1940, 20 550
- delay of implantation and duration, 1938, 18 583
- duration, 1938, 18 578
 - in various species, 1938, 18 593
- histological changes in anterior pituitary, 1937, 17 565
- hormonal control, 1938, 18 584
- iron requirement, 1951, 31 360
- 17-ketosteroids, 1950, 30 350
- leukocyte count, 1943, 23 295
- macrocytic anemia, folic acid, 1948, 28 90
- mammary gland, 1936, 16 492
- menstruation during, 1938, 18 590
- requirement for nutritional essentials, 1948, 28 121
- suppression of estrus cycle, 1938, 18 589
- survival of adrenalectomy, 1945, 25 220
- susceptibility to O₂ poisoning, 1945, 25 37
- toxemia, internal secretions, 1948, 28 1
- urea clearance, 1941, 21 534
- uterine growth, 1951, 31 248
- vitamin C deficiency, oral structures, 1945, 25 452
- water balance, 1944, 24 515

PREGNANCY TEST

- neostigmine, 1951, 31 251

PREHYPERTENSIN *see* HYPERTENSINOGEN

PREPUTIAL TISSUE

- androgens, 1937, 17 198

PRESSMAN, D. *see* PAULING, L.

PRESSURE, INTRACRANIAL

- brain circulation, 1936, 16 549, 1936, 16 568
- increased, hypertension, 1940, 20 163

PRESSURE, MECHANICAL

- wound healing, 1936, 16 377

PRIMATES

- changes in adrenals with reproduction, 1945, 25 208
- higher levels of organization, 1939, 19 316
- pre puberal sexual activities, 1947, 27 266
- sex differences in adrenal glands, 1945, 25 205
- sexual behavior, 1947, 27 252

PROCAINE

- body temperature and action, 1946, 26 267

PROGESTERONE

- androgenic potency of, 1951, 31 36
- corticoid effects, 1945, 25 224
- mammary gland, 1936, 16 498
- ovulation, 1947, 27 110
- synergism with estrogen in mammary development, 1944, 24 342
- toxemia of pregnancy, 1948, 28 6, 1948, 28 13
- S/L ratio, (pro-estrogens), 1948, 28 26
- uterine growth, 1951, 31 245

PROGESTIN

- from placenta, 1938, 18 426
- uterine motility, 1937, 17 320

PROGUANIL

- antagonism to acetylcholine, 1950, 30 178
- mechanism of action, 1950, 30 182

PROLACTIN *see* LACTOGENIC HORMONEPROLAN A *see* FOLLICLE-STIMULATING HORMONEPROLAN B *see* LUTEINIZING HORMONE

PROLINE

- alternate metabolic pathways, 1950, 30 503
- in ergot alkaloids, 1938, 18 306
- microbiological assay, 1949, 29 247

PROPADIENE *see* ALLENE

PROPANE

- anesthetic gas, 1938, 18 454

PROPIONIBACTERIUM PENTOSACEUM

- activity of pteroylglutamic acid, 1948, 28 62

PROPIONIC ACID

- antagonism to β -alanine, 1947, 27 312
- fixation of carbon dioxide, 1946, 26 214
- growth response of plant like flagellates to, 1941, 21 3
- permeability of collodion membranes to, 1936, 16 56

PROPYL ALCOHOL

- fixation of carbon dioxide, 1946, 26 214
- growth response of plant like flagellates to, 1941, 21 3
- iso-growth response of plant like flagellates to, 1941, 21 3
- permeability of collodion membranes to, 1936, 16 57

PROPYLCHLORIDE

- industrial health hazard, 1942, 22 176

PROPYLENE

anesthetic gas, 1938, 18 458

PROSSER, C. L. Invertebrate neurophysiology, 1946, 26-337

PROSTATE

anatomy, 1937, 17 74

androgens, 1937, 17 160, 1945, 25 290

benign hypertrophy, 1945, 25 291

17-ketosteroids, 1950, 30 367

castration, 1945, 25 291

endocrine effects, 1937, 17 78, 1945, 25 288

essentiality, 1945, 25 281

estrogens, 1937, 17 162

female, 1945, 25 281

secretion of citric acid in, 1951, 31 40

function, 1945, 25 282

hypertrophy, 1937, 17 84

metabolism, 1945, 25 288

pathological physiology, 1937, 17 73

secretory function, 1951, 31 27

silica of, 1938, 18 334

PROSTATIC FLUID

chemical composition, 1945, 25 285

function, 1937, 17 76

pharmacodynamic effects of, 1945, 25 284

secretion, 1945, 25 283

drugs and, 1945, 25 284

spermatozoa, 1945, 25 288

PROSTIGMINE

atropine, 1945, 25 610

C.N.S., 1945, 25 602

epinephrine, 1945, 25 382

motion sickness, 1949, 29 358

PROTEIN

blood production, 1942, 22 377

PROTEIN

denaturation by heat and radiation, 1936, 16 672

by various agents, 1936, 16 671

depletion, water balance, 1944, 24 516

deposition, carbohydrate, fat, 1951, 31 473

electrophoresis, 1947, 27 624

foreign, fixation by specific inflammatory reaction, 1938, 18 398

hydrolyzed, injections of, nitrogen balance, 1944, 24 378

intermediary metabolism, phlorhizin, 1945, 25 271

irradiation, 1936, 16 671

loss, carbohydrate, fat, 1951, 31 473

metabolism, in parasitic helminths, 1949, 29 206

of synovial membrane to, 1940, 20 299

origin, in vivo, 1936, 16 2

permeability of C.N.S. capillaries to, 1942, 22 133

of skin to, 1946, 26 528

photolysis, 1950, 30 440

relative activity in organs and fluids, 1940, 20 237

synthesis and hypertrophy, 1938, 18 191

in vivo, 1936, 16 1

turnover in vivo, 1950, 30 207

with labeled amino acids, 1950, 30 206

ultraviolet radiation, 1950, 30 437

PROTEIN (AS TISSUE CONSTITUENT)

in muscular activity, 1936, 16 479

of blood, clinical significance of changes, 1940, 20 2

maintenance by liver, 1942, 22 54

of body, distribution, 1940, 20 212

of cytoplasm of leaves, 1945, 25 367

of human and canine prostatic fluids, 1945, 25 285

of leaves, 1945, 25 360

chlorophyll, 1945, 25 362

of lens, 1937, 17 3

of plants, 1945, 25 347

of plasma, site of formation, 1940, 20 194

venous pressure, 1950, 30 5

of rat body, diet, 1947, 27 85

of seeds, 1945, 25 352

of serum, clinical significance of changes, 1940, 20 3

synovial fluid, 1940, 20 284

of tissues, androgens, 1937, 17 217

of vacuoles of cells of plants, 1945, 25 373

of white, enriched white, and whole wheat flours, 1944, 24 272

reserve store in body, 1940, 20 208

PROTEIN DIET, HIGH

diabetes, 1949, 29 56

goiter, 1950, 30 514

oxidation of ingested glucose, 1938, 18 251

PROTEIN (DIETARY)

digestion and absorption, carbohydrate, fat, 1951, 31 471

fate of, 1940, 20 234

intestinal absorption, 1948, 28 112

gastric absorption, 1948, 28 441

melanin formation, 1950, 30 109

nutrition, and chromoprotein production, 1951, 31 390

nutrition experiments, 1938, 18 110

plasma protein production, 1940, 20 197

potency in production of plasma proteins, 1940, 20 199

specific dynamic action, heat, 1947, 27 217

PROTEIN FREE DIET

sparing action of carbohydrate and fat, 1951, 31 466

PROTEIN METABOLISM

adrenal cortex, 1944, 24 101

carbohydrate, fat, 1951, 31 449

in hyperthyroidism, vitamin A, 1943, 23 358

vitamin C, 1943, 23 370

in stress, adrenal cortex, 1950, 30 287

in tumors, 1937, 17 106

inanition, 1938, 18 262

insulin, 1947, 27 66

isotopic studies, 1940, 20 234

liver, 1942, 22 56

nitrogen retention, 1936, 16 6

of placenta and fetus, 1941, 21 450

of skin, 1946, 26 495

plastin formation, 1936, 16 8

PROTEIN UTILIZATION

by ruminant, carbohydrate, fat, 1951, 31 468

PROTEOLYSIS

in liver tissue, 1938, 18 175

PROTEUS VULGARIS

pteroylglutamic acid in, 1948, 28 63

PROTHROMBIN

- action of heparin, 1944, 24 300
- calcium in preparations, 1936, 16 655
- level, dicumarol, 1944, 24 306
- quantitative determination, 1944, 24 307
- response, transfusion, 1944, 24 309

PROTOPLASM

- surface in large plant cells, 1936, 16 233
- ultrastructure, 1939, 19 270, 1939, 19 282
- ultraviolet radiation, 1950, 30 431

PROTOPORPHYRIN

- acetic acid and formation, 1947, 27 602
- antagonistic structural analogs, 1947, 27 313
- relation to hemoglobin, 1940, 20 39
- structural formula, 1947, 27 479
- IX, physical constants, 1940, 20 425

PROTOKRATIDINE

- formula, optical rotation and melting point, 1946, 26 385
- optical rotation and melting point, 1946, 26 385
- hydrolysis products, 1946, 26 384
- vagus block, 1946, 26 400

PROTOVERINE

- formula, optical rotation and melting point, 1946, 26 385

PROTOZOA

- chemotaxis, 1946, 26 327
- cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
- intestinal, nutrition of, 1941, 21 11
- nutrition, 1941, 21 2

PRURITUS

- physiologic, 1941, 21 358

B, PSEUDOGLOBULIN *see* SIDEROPHILIN

PSEUDOPERNIX

- formula, optical rotation and melting point, 1946, 26 385

PSEUDO-LEUKOCYTOSES

- displacement, distribution of leukocytes, 1943, 23 301

PSEUDOMONAS FLUORESCENS

- pteroylglutamic acid in, 1948, 28 63

PSEUDOPREGNANCY

- mammary gland, 1936, 16 491
- survival of adrenalectomy, 1945, 25 220

PSYCHOSIS

- 17 ketosteroids, 1950, 30 361

PTEROIC ACID

- biological activity, 1948, 28 53

PTEROYLGLUTAMIC ACID *see* FOLIC ACID

PTEROYLHEPTAGLUTAMIC ACID

- biological activity, 1948, 28 53

PTEROYLTRIGLUTAMIC ACID

- antagonism to folic acid, 1947, 27 312
- biological activity, 1948, 28 53
- nutrition of chick, 1948, 28 60
- pernicious anemia, 1948, 28 84

PUBERTY

- hemoglobin, 1951, 31 355

PUERPERIUM

- leukocyte count, 1943, 23 295

PULMONARY ARTERY

- blood flow, nucleic acids, 1936, 16 300

PULP

- vitamin deficiencies, 1945, 25 444

PULSE RATE

- arterial blood pressure and heart failure, 1938, 18 99
- autonomic innervation, 1943, 23 6
- circulatory failure and, 1938, 18 93
- fetal, new born, and adult, 1936, 16 117
- high oxygen tension, 1945, 25 95
- seasonal fluctuations, 1949, 29 20
- vitamin B-complex and, in hyperthyroidism, 1943, 23 366

PUPIL

- autonomic innervation, 1943, 23 4
- light reflex, 1942, 22 213

PUPILLARY CENTER

- resistance to anoxia, 1950, 30 378

PURINES

- alternate metabolic pathways, 1950, 30 505
- as diuretics, 1944, 24 520
- ultraviolet radiation, 1950, 30 446

PYLORIC SPHINCTER

- anoxia, 1941, 21 310
- mobility, morphine, 1937, 17 625

PYOCYANINE

- inhibition of brain metabolism, 1939, 19 177
- oxidation reduction potentials, 1939, 19 197

PYRETHRUM

- arthropod nervous system, 1946, 26 472

PYRIBENZAMINE

- acute toxicity, 1947, 27 550
- minimum effective doses, 1947, 27 552
- pharmacology, 1947, 27 545

PYRIDINE

- anti black tongue activity, 1940, 20 258

PYRIDINE NUCLEOTIDES

- coenzymes, 1939, 19 355
- oxidation reduction system, 1939, 19 200

PYRIDINE-3-SULFONIC ACID

- antagonism to nicotinic acid, 1947, 27 313

PYRIDOXAL

- microbiological assay, 1948, 28 257

PYRIDOXAMINE

- microbiological assay, 1948, 28 257

PYRIDOXINE

- analogs, metabolic inhibition, 1945, 25 696
- antagonistic structural analogs, 1947, 27 313
- carcinogenesis, 1944, 24 195
- deficiency, oral structures, 1945, 25 449
- tissue changes, 1942, 22 268
- extraction procedure for microbiological assay of, 1948, 28 272
- of white, enriched white, and whole wheat flours, 1944, 24 272
- requirement, fat level in diet, 1945, 25 672
- storage in liver, 1942, 22 60
- n*- α -PYRIDYL-N BENZYL N',N' Dimethylethylenediamine HCl *see* PYRIBENZAMINE
- n*- α -PYRIDYL-N p METHOXYBENZYL-N',N' DIMETHYLETHYLENEDIAMINE *see* NEOANTERON

PYRIMIDINES

ultraviolet radiation, 1950, 30 446

N-2-PYRIMIDYL-N-BENZYL-N',N'-DIMETHYLETHYLENEDIAMINE *see* HETRAMINE

PYRITHIAMINE

analog of thiamine, 1945, 25 703

antagonism to thiamin, 1947, 27 314

PYROGENIC BACTERIA

fixation in immune animals, 1938, 18 397

PYRONIN

permeability of C.N.S. capillaries to, 1942, 22 128

PYRUVATE

alternate pathways of metabolism, 1950, 30 492

citrate and acetoacetate synthesis, 1951, 31 74

formation of acetyl from, 1947, 27 592

fixation of carbon dioxide, 1946, 26 213

free energy of oxidation, 1948, 28 290

in ergot alkaloids, 1938, 18 306

inhibition of brain metabolism, 1939, 19 173

oxidative decarboxylation, 1951, 31 70

phosphoracetic reduction, 1951, 31 65

role in intermediary metabolism, 1941, 21 294

transformations, in kidney cortex slices, 1941, 21 270

Q₁₀ *see* 8-QUINOLYLDIETHYL THIOPHOSPHATEQ₀₂ *see* OXYGEN CONSUMPTION

QUARTERNARY ONIUM COMPOUNDS

pharmacological effects, 1937, 17 398

QUASTEL, J. H. Respiration in central nervous system, 1939, 19 135

QUICK, A. J. Anticoagulants effective in vivo, 1944, 24 297

QUINIDINE

in avian malaria, 1942, 22 193

QUININE

acetylcholine synthesis, 1945, 25 623

antagonism to veratrum alkaloids, 1946, 26 426

bacteriophage, 1936, 16 137

in avian malaria, 1942, 22 192

QUINIC ACID

permeability of collodion membranes to, 1936, 16 56

QUINOLINIC ACID

anti black tongue activity, 1940, 20 258

8-QUINOLYLDIETHYL THIOPHOSPHATE

formula and trivial name, 1951, 31 328

QUINONE

antipressor agent, 1946, 26 174

RABBIT

acetylcholine, of nervous tissue, 1945, 25 627

of outer intestinal layer, 1946, 26 371

acute toxicity of antihistamines, 1947, 27 550

adrenal glands and gonadectomy, 1945, 25 211

alloxan diabetes, 1948, 28 306

anaphylaxis, 1941, 21 575

anesthetic dose, 1939, 19 497

ascorbic acid of lens, 1937, 17 15

blood chlorides after death, 1944, 24 74

after death by drowning, 1944, 24 75

blood flow in mother and fetus, 1936, 16 118

brain, oxygen consumption of, 1936, 16 577

cerebral blood flow, 1936, 16 580

changes in adrenals with reproduction, 1945, 25 207

cholinesterase activity of nervous system, 1945, 25 629

endurance of forced submersion, 1939, 19 116

experimental exophthalmos, 1949, 29 261

gonads, adrenalectomy, 1945, 25 216

hemolysis of erythrocytes from, 1936, 16 38

insensible loss of water, 1942, 22 15

insulin of pancreas, 1944, 24 412

17 ketosteroids of urine, 1950, 30 368

lethal dose of veratrum alkaloids, 1946, 26 389

ligation of hepatic artery, 1951, 31 188

metabolic rate per day, 1947, 27 529

morphine and small intestine, 1937, 17 629

number of fibers in optic nerve, 1942, 22 207

oxygen consumption of lens, 1937, 17 8

progesterin action on uterus, 1937, 17 321

Q₀₂ of brain cortex slices, 1939, 19 143

with p-phenylenediamine, 1939, 19 149

serum calcium and sex hormones, 1943, 23 158

sex differences in adrenal glands, 1945, 25 205

sympathetic innervation of nictitating membrane, 1943, 23 2

transport of sperm, 1951, 31 4

uterus, ergonovine and, 1938, 18 315

velocity of nerve conduction, 1946, 26 340

vision, 1937, 17 247

RACE

hemophilia, 1944, 24 460

RADIATION

lesions, histopathology, 1944, 24 225

ionization caused by, 1944, 24 225

sensitivity of cells, 1944, 24 229

therapeutic use, dosage, 1944, 24 226

variations in sensitivity, 1944, 24 228

RADIATION SICKNESS

folic acid, 1948, 28 91

RADIOACTIVE SUBSTANCES

carcinogenesis, 1937, 17 93

RADISH

goiter, 1950, 30 527

RADIUM

as tumor inducing agent, 1943, 23 113

RADON

solubility in tissues, 1947, 27 369

RAJA

electric organ, cholinesterase in, 1946, 26 369

RAPE SEED

goiter, 1950, 30 527

RAPOPORT, S. *see* GUEST, G. M.RAPAPOORT, A. M. *see* MARKOWITZ, J.

RARE EARTH METALS

hydroxide, enzymes, 1950, 30 424

RAT

acetylcholine of nervous tissue, 1945, 25 627

activity cycles, 1949, 29 19

acute toxicity of antihistamines, 1947, 27 550

adrenal glands and gonadectomy, 1945, 25 209

sex hormones and, 1945, 25 213

alloxan diabetes, 1948, 28 306

anaphylaxis, 1941, 21 580

- PROTHROMBIN**
 action of heparin, 1944, 24 300
 calcium in preparations, 1936, 16 655
 level, dicumarol, 1944, 24 306
 quantitative determination, 1944, 24 307
 response, transfusion, 1944, 24 309
- PROTOPLASM**
 surface in large plant cells, 1936, 16 233
 ultrastructure, 1939, 19 270, 1939, 19 282
 ultraviolet radiation, 1950, 30 431
- PROTOPORPHYRIN**
 acetic acid and formation, 1947, 27 602
 antagonistic structural analogs, 1947, 27 313
 relation to hemoglobin, 1940, 20 39
 structural formula, 1947, 27 479
 IX, physical constants, 1940, 20 425
- PROTOVERATRINE**
 formula, optical rotation and melting point, 1946, 26 385
 optical rotation and melting point, 1946, 26 385
 hydrolysis products, 1946, 26 384
 vagus block, 1946, 26 400
- PROTOVERINE**
 formula, optical rotation and melting point, 1946, 26 385
- PROTOZOA**
 chemotaxis, 1946, 26 327
 cholinesterase in nervous and neuromuscular tissues, 1946, 26 370
 intestinal, nutrition of, 1941, 21 11
 nutrition, 1941, 21 2
- PRURIUS**
 physiologic, 1941, 21 358
- B, PSEUDOGLOBULIN** *see* **SMEROPHILIN**
- PSEUDOJERVINE**
 formula, optical rotation and melting point, 1946, 26 385
- PSEUDO-LEUKOCYTOSES**
 displacement, distribution of leukocytes, 1943, 23 301
- PSEUDOMONAS FLUORESCENS**
 pteroylglutamic acid in, 1948, 28 63
- PSEUDOPREGNANCY**
 mammary gland, 1936, 16 491
 survival of adrenalectomy, 1945, 25 220
- PSYCHOSIS**
 17-ketosteroids, 1950, 30 361
- PTEROIC ACID**
 biological activity, 1948, 28 53
- PTEROYLGLUTAMIC ACID** *see* **FOLIC ACID**
- PTEROYLHEPTAGLUTAMIC ACID**
 biological activity, 1948, 28 53
- PTEROYLTRIGLUTAMIC ACID**
 antagonism to folic acid, 1947, 27 312
 biological activity, 1948, 28 53
 nutrition of chick, 1948, 28 60
 pernicious anemia, 1948, 28 84
- PUBERTY**
 hemoglobin, 1951, 31 355
- PURPERIUM**
 leukocyte count, 1943, 23 295
- PULMONARY ARTERY**
 blood flow, nucleic acids, 1936, 16 300
- PULP**
 vitamin deficiencies, 1945, 25 444
- PULSE RATE**
 arterial blood pressure and heart failure, 1938, 18 99
 autonomic innervation, 1943, 23 6
 circulatory failure and, 1938, 18 93
 fetal, new born, and adult, 1936, 16 117
 high oxygen tension, 1945, 25 95
 seasonal fluctuations, 1949, 29 20
 vitamin B-complex and, in hyperthyroidism, 1943, 23 366
- PUPIL**
 autonomic innervation, 1943, 23 4
 light reflex, 1942, 22 213
- PUPILLARY CENTER**
 resistance to anoxia, 1950, 30 378
- PURINES**
 alternate metabolic pathways, 1950, 30 505
 as diuretics, 1944, 24 520
 ultraviolet radiation, 1950, 30 446
- PYLORIC SPHINCTER**
 anoxia, 1941, 21 310
 motility, morphine, 1937, 17 625
- PYOCYANINE**
 inhibition of brain metabolism, 1939, 19 177
 oxidation reduction potentials, 1939, 19 197
- PYRETHRUM**
 arthropod nervous system, 1946, 26 472
- PYRIBENZAMINE**
 acute toxicity, 1947, 27 550
 minimum effective doses, 1947, 27 552
 pharmacology, 1947, 27 545
- PYRIDINE**
 anti black tongue activity, 1940, 20 258
- PYRIDINE NUCLEOTIDES**
 coenzymes, 1939, 19 355
 oxidation reduction system, 1939, 19 200
- PYRIDINE-3-SULFONIC ACID**
 antagonism to nicotinic acid, 1947, 27 313
- PYRIDOXAL**
 microbiological assay, 1948, 28 257
- PYRIDOXAMINE**
 microbiological assay, 1948, 28 257
- PYRIDOXINE**
 analogs, metabolic inhibition, 1945, 25 696
 antagonistic structural analogs, 1947, 27 313
 carcinogenesis, 1944, 24 195
 deficiency, oral structures, 1945, 25 449
 tissue changes, 1942, 22 268
 extraction procedure for microbiological assay of, 1948, 28 272
 of white, enriched white, and whole wheat flours, 1944, 24 272
 requirement, fat level in diet, 1945, 25 672
 storage in liver, 1942, 22 60
- n- α -PYRIDYL-N' BENZYL-N',N'-Dimethyl ethylenediamine HCl** *see* **PYRIBENZAMINE**
- n- α -PYRIDYL-N p-METHOXYBENZYL-N',N'-Dimethyl ethylenediamine** *see* **NEOANTERGAN**

- body temperature, 1944, 24 329
carbon monoxide anoxemia, 1940, 20 330
carotid, aortic bodies, 1944, 24 326
cerebral circulation, 1936, 16 556
chemical regulation, 1950, 30 220
chemoreceptor activity, 1940, 20 136
ergonovine, 1938, 18 318
exercise, epinephrine, 1944, 24 331
fetal, circulation, 1936, 16 103
high oxygen tension, 1945, 25 88
intermittent, in diving mammals, 1939, 19 128
intravenous injection of acetylcholine, 1945, 25 599
lactic acid, 1944, 24 322
metabolites formed during exercise, 1944, 24 319
motor mechanisms, 1946, 26 616
multiple embolism of lung, 1950, 30 477
nervous regulation, 1946, 26 625
oxygen tension, 1945, 25 9
posture changes, 1943, 23 235
pulmonary chemical sensitivity, 1947, 27 9
rapid, shallow, multiple embolism of lung, 1950, 30 475
reflexes from exercising limbs, 1944, 24 323
 from lungs, 1944, 24 328, 1944, 24 329
 from vena cava, 1944, 24 329
regulation in exercise, 1950, 30 220
snake venom, 1945, 25 160
stimulus by exercise, 1950, 30 223
 pathway traveled by, 1950, 30 227
subacute mountain sickness, 1943, 23 169
tissue, microrespirometer technique, 1943, 23 51
total ventilation, oxygen consumption, 1950, 30 232
ventilation ratio, and metabolic rate ratio, 1950, 30 234
- RESPIRATION (CELLULAR)**
activating proteins, 1939, 19 218
mechanism of enzymatic oxidation, 1939, 19 222
oxidation reduction series, 1939, 19 220
oxidation reduction systems, 1939, 19 211
- RESPIRATORY CENTER**
barbiturates, 1939, 19 473
chemoreceptors, respiratory movement, 1947, 27 12
 thresholds, 1940, 20 137
descending pathways from, 1946, 26 615
eserine, 1945, 25 608
inspiratory and expiratory divisions, 1946, 26 611
internal acidity of cells and exercise, 1944, 24 332
interrelations of inspiratory and expiratory centers, 1946, 26 614
location, in cat, 1946, 26 611
medullary, morphology, 1946, 26 609
motor cortex and, in exercise, 1944, 24 331
nature of neural discharge, 1946, 26 616
organization, 1946, 26 609
pattern of motor discharge, 1946, 26 617
regulation, 1946, 26 625
resistance to anoxia, 1950, 30 378
rhythm of breathing, 1946, 26 620
rhythmic properties exhibited by, 1946, 26 617
sensitivity to environment, 1946, 26 625
- RESPIRATORY COMPLEX**
definition, 1946, 26 623
functional interrelations, 1946, 26 623
- RESPIRATORY ENZYMES**
in parasitic helminths, 1949, 29 207
- RESPIRATORY MOVEMENTS**
blood composition, 1947, 27 10
carotid body, aortic receptors, 1947, 27 12
chemoreceptors, respiratory center, 1947, 27 12
peripheral circulation, 1947, 27 24
regulation by peripheral chemoreceptors, 1947, 27 1
sensory endings in lungs, 1947, 27 11
- RESPIRATORY QUOTIENT**
brain, 1936, 16 579, 1939, 19 139, 1939, 19 144
cold blooded heart, 1936, 16 603
determinations on isolated tissues, 1941, 21 172
diabetes, 1941, 21 151
fructose and galactose, 1936, 16 188
mammalian heart, 1936, 16 613
muscular exercise, 1936, 16 270, 1942, 22 34, 1942, 22 39
obese individuals, 1944, 24 29
total non-protein, 1945, 25 425
various foods, 1941, 21 151
work, 1942, 22 39
- RESPIRATORY TRACT**
insensible loss of water through, 1942, 22 3, 1944, 24 501
veratrum alkaloid, 1946, 26 391
- REST**
venous pressure during, 1950, 30 24
- RETICULAR AND HISTIOCYTIC CEREBROSIDOSIS** *see*
GAUCHER'S DISEASE
- RETICULAR AND HISTIOCYTIC SPHINGOMYELINOSIS** *see*
NIEMANN-PICK'S DISEASE
- RETICULOCYTES**
organic phosphates, 1941, 21 416
- RETICULO-ENDOTHELIAL SYSTEM**
production of antihormones, 1941, 21 600
- RETICULUM CELLS**
cholesterol formation, 1946, 26 300
- RETINA**
cones, 1942, 22 205
cytochrome c and oxygen consumption, 1951, 31 417
histological pattern, 1937, 17 251
projection on cerebral cortex, 1942, 22 226
receptors, 1937, 17 239
rods, 1942, 22 205
 spectral sensibility, 1937, 17 240
structural organization, 1942, 22 205
- REYNOLDS, S. R. M.** Nature of uterine contractility, 1937, 17 304
uterine activity, 1951, 31 244
- RH BLOOD FACTOR**
inheritance, 1944, 24 461
- RHIAN, M.** *see* MOXON, A. L.
- RHOADS, C. P.** *see* DOBRINER, K.
- RIBOFLAVIN**
analogs, 1945, 25 707
antagonistic structural analogs, 1947, 27 313
carcinogenesis, 1944, 24 195
deficiency, oral tissues, 1945, 25 446
tissue changes, 1942, 22 262

RAT

- anesthetic dose, 1939, 19 497
 - appearance of ossification centers, 1943, 23 147
 - ascorbic acid of lens, 1937, 17 15
 - body composition during growth, 1947, 27 83
 - brain, oxygen consumption of, 1936, 16 577
 - calcium and phosphorus requirements, 1940, 20 543
 - changes in adrenals with reproduction, 1945, 25 206
 - cholinesterase, distribution, 1951, 31 337
 - in brain cortex, 1946, 26 369
 - of nervous system, 1945, 25 629
 - essential fatty acid requirement, 1943, 23 262
 - fluoride intoxication, 1940, 20 593
 - folic acid, 1948, 28 68
 - glutamic acid in brain, 1950, 30 550
 - gonads, adrenalectomy, 1945, 25 215
 - hemoglobin, myoglobin and cytochrome c, 1951, 31 351
 - hemolysis of erythrocytes from, 1936, 16 38
 - insensible loss of water, 1942, 22 15
 - insulin of pancreas, 1944, 24 412
 - lethal dose of veratrum alkaloids, 1946, 26 389
 - melanophores, 1948, 28 402
 - metabolic rate per day, 1947, 27 529
 - optimal growth, 1947, 27 72
 - oxygen consumption of tissues and cytochrome c, 1951, 31 417
 - pigment pattern, 1948, 28 402
 - progestin action on uterus, 1937, 17 321
 - pulse rate of fetus, new born and adult, 1936, 16 117
 - Qo₂ of brain cortex slices, 1939, 19 143
 - with p-phenylenediamine, 1939, 19 149
 - reproduction, diet, 1947, 27 90
 - rhythmic activity, 1949, 29 8
 - serum calcium and sex hormones 1943, 23 158
 - sex differences in adrenal glands, 1945, 25 205
 - susceptibility to alloxan, diet, 1949, 29 58
 - toxicity of veratrum alkaloids, 1946, 26 388
 - transport of sperm, 1951, 31 4
 - ulceration of forestomach, vitamin B-complex, 1944, 24 148
 - urinary androgens, 1937, 17 165
 - water, endurance of forced submersion, 1939, 19 116
 - white, endurance of forced submersion, 1939, 19 116
 - zinc in blood, 1949, 29 372
- RAWLES, MARY E. Melanophores and pattern development, 1948, 28 383
- RDE *see* RECEPTOR DESTROYING ENZYMES
- REACTION OF DEGENERATION
definition, 1939, 19 6
- RECEPTOR DESTROYING ENZYMES
biological properties of inhibitors, 1951, 31 142
of virus, soluble, 1951, 31 134
physiological characteristics, 1951, 31 147
properties, 1951, 31 134
substrate, 1951, 31 135
virulence and infection with influenza virus, 1951, 31 145
- RECTAL SACS
excretion by, 1938, 18 38

RECTUM

- morphine, 1937, 17 633
- silica of, 1938, 18 334

REFLEXES

- acetylcholine, 1945, 25 601
- anticholinesterases, 1945, 25 609
- from exercising limbs, 1944, 24 323
- removable joints, 1950, 30 147

REID, MARY ELIZABETH Interrelations of calcium and ascorbic acid, 1943, 23 76

REMINGTON, J W *see* SWINGLE, W W

RENAL ARTERIES

- hypertension due to constriction, 1947, 27 124

RENAL CLEARANCE

- diseases, 1941, 21 544
- in newborn, creatinine, 1948, 28 339
- diodone, 1948, 28 340
- mineral, 1948, 28 340
- p-aminhippuric acid, 1948, 28 340
- tests, 1941, 21 541
- urea, age, 1941, 21 532
 - comparison with other tests of renal function, 1941, 21 557
- diet, 1941, 21 531
- hemoglobin, 1941, 21 530
- hormones, 1941, 21 535
- infections, 1941, 21 537
- muscular activity, 1941, 21 533
- NaCl, 1941, 21 532
- nervous effects, 1941, 21 529
- pharmacological agents, 1941, 21 536
- pregnancy, 1941, 21 534
- rate of filtration and tubular absorption, 1941, 21 538
- rate of glomerular filtration, 1941, 21 539
- temperature, 1941, 21 537
- vitamin A, 1941, 21 532

RENILLA *see* COELENTERATA

RENIN

- chemical properties, 1947, 27 132
- definition, 1947, 27 132
- fate, in body, 1947, 27 135
- mechanism of formation, 1947, 27 142
- physiological properties, 1947, 27 133
- role in hypertension, 1940, 20 186
- site of formation, 1947, 27 142
- units, 1947, 27 135

RENIN SUBSTRATE *see* HYPERTENSINOGEN

REPRODUCTION

- as measurement of value of fat, 1943, 23 270
- at high altitudes, 1943, 23 179
- biotin, avidin, 1946, 26 481
- carbon monoxide anoxemia, 1940, 20 332
- nutritional requirements of insects, 1941, 21 21
- rat, diet, 1947, 27 90
- vitamin E deficiency, 1942, 22 254

REPTILES

- blood production, 1942, 22 376
- neoplasms, 1949, 29 94

RESPIRATION

- acidity of cells of respiratory center, 1944, 24 332
- adaptation to physiological needs, 1947, 27 18
- barbiturates, 1939, 19 473

- SCHWANN CELLS**
proliferation in degenerating nerve, 1942, 22 339
- SCIATIC NERVES**
cholinesterase in, 1946, 26 369
- SCOLOPENDRA**
velocity of conduction in ganglionic cords, 1946, 26 339
- SCOPOLAMINE** *see* HYOSCINE
- SCORPION VENOM**
antiserum, 1945, 25 153
- SCORPIONS**
physiological effects of venom, 1945, 25 150
- SCOTT, H. M.** *see* CONRAD, R. M.
- SCRATCH REFLEX**
itching, 1941, 21 375
- SEAMAN, A. J.** *see* OSGOOD, E. E.
- SEA ELEPHANT**
duration of dives, 1939, 19 115
- SEA LION**
oxygen capacity of blood, 1939, 19 119
- SEA WATER**
drowning in, blood chlorides after, 1944, 24 75, 1944, 24 79, 1944, 24 83
- SEA-URCHIN EGG**
hyaluronidase and fertilization of, 1948, 28 207
- SEAL**
endurance of forced submersion, 1939, 19 116
gray, duration of dives, 1939, 19 115
harbor, duration of dives, 1939, 19 115
oxygen capacity of blood, 1939, 19 119
- SEBACEOUS GLANDS**
histology, 1946, 26 508
- SECOVAL**
anesthetic dose in various species, 1939, 19 496
- SECONDARY SEX CHARACTERISTICS**
hair as, 1939, 19 95
sex hormones, 1947, 27 286
in invertebrate, 1941, 21 385
- SECRETIN**
clinical use, 1950, 30 55
definition, 1950, 30 47
extra pancreatic action, 1950, 30 54
HCl and, 1950, 30 48
in duodenal secretion, 1941, 21 42
metabolism, 1950, 30 55
nervous control of release, 1950, 30 49
preparation, 1950, 30 50
properties, 1950, 30 52
site of formation, 1950, 30 48
stimulation of pancreatic juice, 1950, 30 52
- SEDIMENTATION RATE**
hyaluronic acid, 1947, 27 354
- SEEDS**
protein of, 1945, 25 352
- SEEVERS, M. H. AND WATERS, R. M.** Pharmacology of the anesthetic gases, 1938, 18 447
- SELENIUM**
absorption by plants, 1943, 23 308
acute toxicity, 1943, 23 315
blood, 1943, 23 321
distribution in body, 1943, 23 319
for control of insects on plants, 1943, 23 310
geological distribution, 1943, 23 306
in soil, 1943, 23 307
industrial hazard, 1945, 25 193
insecticide, 1943, 23 310
organic compounds, 1943, 23 326
placental transmission, 1943, 23 312
poisoning, 1943, 23 305
certain organic compounds, 1943, 23 325
dietary factors, 1943, 23 322
enzyme systems, 1943, 23 325
other elements, 1943, 23 324
porphyrins, 1940, 20 457
public health aspects, 1943, 23 328
sub-acute and chronic toxicity, 1943, 23 317
- SEMEN**
acid phosphatase, 1951, 31 43
choline, 1951, 31 44
phosphorylcholine and acid phosphatase, 1951, 31 44
citric acid, 1951, 31 39
coagulation, 1951, 31 47
fructose, 1951, 31 33
function of citric acid, 1951, 31 41
liquefaction, 1951, 31 47
mechanism of fructose formation, 1951, 31 37
phosphatase, 1951, 31 43
- SEMINAL VESICLES**
androgens, 1937, 17 161
ergonovine, 1938, 18 316
estrogens, 1937, 17 162
local action of estrogens, 1948, 28 37
secretory function, 1951, 31 27
- SENSIBAMINE** *see* ERGOT ALKALOIDS
- SENSORY DISCRIMINATION**
extirpation of parts of brain, 1939, 19 310
- SENSORY FUNCTION**
sexual behavior, 1947, 27 241
- SEPIA**
velocity of nerve conduction, 1946, 26 340
- SERINE**
microbiological assay, 1949, 29 247
- SERRATIA MARCESANS**
pteroylglutamic acid in, 1948, 28 63
- SERUM**
brilliant green system, hemolysis and, 1936, 16 45
chemical composition, 1940, 20 284
electrolytes, in infancy, 1939, 19 428
plasma calcium, 1936, 16 641
taurocholate-cell system, hemolysis, 1936, 16 46
- SERUM ALBUMIN**
absorption spectra, ultraviolet radiations, 1950, 30 439
- SEVERINGHAUS, A. E.** Cellular changes in anterior hypophysis, 1937, 17 556
- SEX**
drug resistance, 1937, 17 217
hair development, 1939, 19 96
regional, 1939, 19 94
hemoglobin, 1951, 31 354
inorganic constituents of bone, 1937, 17 121
insensible loss of water, 1942, 22 7

RIBOFLAVIN

- enrichment of bread with, 1944, 24 262
- intestinal absorption, 1948, 28 109
- localization in cells, 1941, 21 252
- microbiological assay, 1948, 28 257
- extraction procedure, 1948, 28 271
- of CNS, 1939, 19 178
- of white, enriched white, and whole wheat flours, 1944, 24 272
- oxidation reduction potentials, 1939, 19 194, 1939, 19 197
- requirement, fat level in diet, 1945, 25 671

RIBOFLAVIN CONTAINING ENZYMES

- chemistry, mode of action, 1939, 19 375
- determination, 1939, 19 374
- nomenclature, history, 1939, 19 372
- occurrence, 1939, 19 373
- properties, 1939, 19 374

RIBONUCLEIC ACID

- ultraviolet radiations, 1950, 30 446

RICE

- extract, as substitute for insulin, 1949, 29 80

RICH, A. R. Hypersensitivity in infections, 1941, 21 70

RICKETS

- calcium metabolism in infant, 1939, 19 421
- organic phosphates of blood, 1941, 21 429
- pathology, 1942, 22 246

RITTENBERG, D. *see* SCHOENHEIMER, R

ROBERTSON, O. H. Phagocytosis of foreign material in lung, 1941, 21 112

ROBLSON ESTER *see* HEXOSEMONOPHOSPHATEROCKLAND, L. B. *see* DUNN, M. SRODS *see* RETINA, rods.ROENTGEN RAYS *see* X RAYSROEFKE, M. H. *see* HENDERSON, V. E

ROOTS

- auxins, 1938, 18 533

ROPES, MARIAN W. *see* BAUER, W

RORQUAL, COMMON

- duration of dives, 1939, 19 115

ROSACEA KERATITIS

- riboflavin deficiency, 1942, 22 263

ROSE, W. C. Nutritive significance of amino acids, 1938, 18 109

ROSENBLUTH, A. Transmission of sympathetic nerve impulses, 1937, 17 514

ROTHMAN, S. Physiology of itching, 1941, 21 357

R.P. 2325

- minimum effective doses, 1947, 27 552

- pharmacology, 1947, 27 545

R.P. 2339 *see* ANTERGANR.P. 2786 *see* NEOANTERGAN

R.P. 3015

- pharmacology, 1947, 27 546

R.P. 3277

- pharmacology, 1947, 27 546

RUBIJERVINE

- formula, optical rotation and melting point, 1946, 26 385

RUBOR *see* INFLAMMATION

See page iii for guide to use of index

RUMINANTS

- protein utilization, carbohydrate, fat, and, 1951, 31 468

RUSCH, H. P. Factors that influence carcinogenesis, 1944, 24 177

RUSSELL, JANE A. Anterior pituitary and carbohydrate metabolism, 1938, 18 1

RUTABAGA

- goiter, 1950, 30 527

RYE

- extract, as substitute for insulin, 1949, 29 80

SACCHAROSE

- permeability of collodion membranes, 1936, 16 56

SACKS, J. Chemistry of muscular contraction, 1941, 21 217

SAFRANINE

- bacteriophage, 1936, 16 138

SALAMANDER

- blood production in, 1942, 22 376

SALICYLATES

- β -alanine, antagonism to pantothenic acid, 1947, 27 313

- gastric absorption, 1948, 28 435

- hypoprote thrombocytopenia, 1944, 24 311

- permeability of skin, 1946, 26 533

SALIVA

- dental caries, 1939, 19 397

- iodine in, 1940, 20 353

SALIVARY GLANDS

- cholinesterase in, 1951, 31 337

- secretion, antihistamines, 1947, 27 561

- vitamin A deficiency, 1945, 25 444

SALIVATION

- morphine, 1937, 17 637

SALMON

- nicotinic acid of, 1940, 20 264

SALTER, W. T. Iodine metabolism, 1940, 20 345

SALVARSAN POISONING

- porphyritins, 1940, 20 457

SALYRGAN

- urea clearance, 1941, 21 536

SAYERS, G. Adrenal cortex and homeostasis, 1950, 30 241

SCHALLEH, W. *see* WELSH, J. H

SCHARER, BERTA. Endocrines in invertebrates, 1941, 21 383

— *see* SCHARER, L

SCHARER, E. AND SCHARER, BERTA. Neurosecretion, 1945, 25 171

SCHLUMBERGER, H. G. *see* LUCKÉ, B

SCHMIDT, C. F. AND COMROE, J. H., Jr. Functions of carotid and aortic bodies, 1940, 20 115

SCHMIDT, G. *see* THIANHAUSER, S. J

SCHMITT, F. O. Ultrastructure of protoplasmic constituents, 1939, 19 270

SCHOENHEIMER, R. AND RITTENBERG, D. Study of metabolism with aid of isotopes, 1940, 20 218

SCHOUR, I. AND MASSLER, M. Dietary deficiencies and oral structures, 1945, 25 442

SCHULTZE, M. O. Metallic elements and blood for mation, 1940, 20 37

SILICA

- dust, dissolution in vivo, 1938, 18 344
- harmful effects, 1938, 18 346
- in lungs, 1938, 18 341
- phagocytosis, 1941, 21 121
- physiological and pathological aspects, 1938, 18 329
- solubility, 1938, 18 338

SILICIC ACID

- colloidal, complement system and hemolysis, 1936, 16 44

SILICON

- absorption and excretion, 1938, 18 337
- determination, 1938, 18 330
- distribution, 1938, 18 329
- of animal tissues, 1938, 18 332
- of microorganisms, 1938, 18 332
- of plants, 1938, 18 332

SILICOSIS

- symptoms, 1945, 25 196

SILICOTIC NODULE

- dust content, 1938, 18 348
- infective theory, 1938, 18 356
- morphology, 1938, 18 348
- pathogenesis, 1938, 18 351
- silica specificity theory, 1938, 18 353

SILVER

- detection in cells, 1941, 21 245
- melanin formation, 1950, 30 120

SIPHONAPTERA

- nutritional requirements, 1941, 21 20

SKELETAL SYSTEM

- estrogens, androgens, 1943, 23 139
- in birds, sex hormones, 1943, 23 142
- injected estrogens, 1943, 23 150

SKIN

- activity of sensory endings, 1946, 26 90
- amino acids, 1949, 29 254
- appearances in circulatory failure, 1938, 18 93
- basic changes in sunburn, 1945, 25 491
- blood supply, 1946, 26 508
- cholinesterase in, 1951, 31 337
- cutaneous sensations by radiant energy, 1945, 25 510
- diseases, porphyrias, 1940, 20 453
- urinary coproporphyrins, 1947, 27 498
- epidermis, electrochemical properties, 1946, 26 506
- electrophysical properties, 1946, 26 506
- formation of vitamin D in, by sunlight, 1945, 25 508
- functional modification, 1946, 26 518
- glucose of, 1946, 26 497
- glycogen, of 1946, 26 498
- histopathology of radiation injury, 1944, 24 234
- inflammatory reactions, antihistamines, 1947, 27 557
- innervation, 1946, 26 509
- insensible loss of water, 1942, 22 4
- lesions in riboflavin deficiency, 1942, 22 264
- lipids in, 1946, 26 499
- loss of water through, 1944, 24 501
- metabolism and permeability, 1946, 26 495
- mild keratolysis, 1946, 26 518
- nature of pain in, 1947, 27 167
- need of linoleic acid in, 1943, 23 263
- neoplasms, sunburn, 1945, 25 506

- nerve fibers and sensation, 1946, 26 82
- neural mechanisms of cutaneous sense, 1946, 26 77
- oxygen consumption, 1951, 31 417
- pain threshold, 1947, 27 172
- factors influencing, 1947, 27 172
- pain, types, 1947, 27 177
- papilloma, in fish, 1949, 29 100
- permeability, 1946, 26 510
- electric current, 1946, 26 516
- factors affecting, 1946, 26 511
- histology, 1946, 26 502
- hyperemia, 1946, 26 519
- lipoid solubility of material, 1946, 26 514
- methods of determining, 1946, 26 512
- vehicle, 1946, 26 514
- photosensitization, 1945, 25 509
- pigment, sensitivity to sunlight and, 1945, 25 523
- re innervation, 1942, 22 358
- reflection of sunlight, 1945, 25 489
- silica of, 1938, 18 334
- sunlight, 1945, 25 490
- vasodilator action of epinephrine, 1938, 18 142
- vasodilator fibres, 1938, 18 149
- vitamin A distribution, 1944, 24 219
- vitamin requirements, 1946, 26 500
- see also* BURNS

SLEEP

- development of diurnal rhythm, 1949, 29 25
- EEG, 1950, 30 467
- isolated forebrain, 1950, 30 468

SMITH, G V S AND SMITH, O W Toxemia of late pregnancy, 1948, 28 1

SMITH, O W *see* SMITH, G V S.

SMITHIES, O *see* OGSTON, A. G

SNAKE BITE

- treatment, 1945, 25 164

SNAKE VENOM

- as therapeutic agents, 1945, 25 165
- immunity, 1945, 25 162
- pharmacology, 1945, 25 158

SNELL, E E Microorganisms for assay of vitamins, 1948, 28 255

SNYDER, C. D Recent advances in knowledge of the liver, 1942, 22 54

SNYDER, F F Factors concerned in duration of pregnancy, 1938, 18 578

SODIUM

- absorption, adrenalectomy, 1944, 24 92
- adrenal insufficiency, 1951, 31 288
- carbohydrate metabolism, 1951, 31 292
- clinical significance of changes, 1940, 20 21
- deficiency, water balance, 1944, 24 517
- excess, water balance, 1944, 24 519
- in dehydration, 1951, 31 291
- in disease, 1951, 31 285
- intracellular, adrenalectomy, 1944, 24 93
- loss in sweating, 1936, 16 275
- metabolism, adrenal cortex, 1944, 24 90, 1949, 29 282
- normal distribution, 1951, 31 286
- of blood, adrenalectomy, 1944, 24 93
- of human and canine prostatic fluids, 1945, 25 285

See page iii for guide to use of index

- SEX**
leukemia, 1946, 26 52
organic phosphates of blood, 1941, 21 415
- SEX CYCLES**
activity, 1949, 29 15
in animals, 1949, 29 15
- SEX GLANDS**
carbon monoxide anoxemia, 1940, 20 332
- SEX HORMONES**
adrenal glands, 1945, 25 211
biological formation, 1937, 17 218
calcification, 1940, 20 550
corticoid effects, 1945, 25 222
histological changes in anterior pituitary, 1937, 17 572
intravaginal instillation, 1948, 28 23
invertebrates, 1941, 21 383
leukemia, 1946, 26 52
local action, 1948, 28 23
melanin formation, 1950, 30 113
permeability of skin, 1946, 26 531
water balance, 1944, 24 515
- SEX ORGANS**
accessory, response to androgens, 1937, 17 158
- SEXUAL BEHAVIOR**
adrenocortical hormones, 1947, 27 285
anterior pituitary hormones, 1947, 27 285
auto-genital stimulation, 1947, 27 270
bisexual, hormonal factors, 1947, 27 280
 mating reactions, 1947, 27 267
coital pattern, 1947, 27 251
contact stimulation, 1947, 27 246
effector mechanisms in diencephalon, 1947, 27 255
 in forebrain, 1947, 27 256
 in spinal cord, 1947, 27 253
 in sympathetic nervous system, 1947, 27 255
estrus cycle, 1947, 27 272
evolutionary trends, 1947, 27 261
gonadectomy, 1947, 27 274
hormonal factors, 1947, 27 272
in mammals, 1947, 27 240
individual differences, 1947, 27 242
inter sexual differences, 1947, 27 263
nervous system, 1947, 27 241
non-contact stimulation, 1947, 27 243
non sexual emotions, 1947, 27 262
non sexual stimulation and arousal, 1947, 27 264
physiological studies, 1947, 27 240
pre puberal, 1947, 27 266
primates, 1947, 27 252
psychological studies, 1947, 27 240
thymus, 1947, 27 285
thyroxin, 1947, 27 285
- SEXUAL PRECOCITY**
17 ketosteroids, 1950, 30 357
- SHANNON, J. A.** Renal tubular excretion, 1939, 19 63
- SHAPIRO, B.** *see* WERTHEIMER, E
- SHEEP**
acetylcholine of nervous tissue, 1945, 25 628
adrenal glands and gonadectomy, 1945, 25 211
alloxan diabetes, 1948, 28 306
anesthetic dose, 1939, 19 496
ascorbic acid of lens, 1937, 17 15
bacteriology of liver, 1951, 31 195
brain, oxygen consumption of, 1936, 16 577
changes in adrenals with reproduction, 1945, 25 208
experimental exophthalmos, 1949, 29 261
fetal arterial pressure, 1936, 16 108
fluoride intoxication, 1940, 20 593
glutamic acid in brain, 1950, 30 550
hemolysis of erythrocytes from, 1936, 16 38
insulin of pancreas, 1944, 24 413
17-ketosteroids of urine, 1950, 30 367
metabolic rate per day, 1947, 27 529
nicotinic acid of, 1940, 20 264
ovulation in, 1947, 27 108
oxygen saturation of fetal blood, 1936, 16 112
rhythmic activity, 1949, 29 8
selenium poisoning, 1943, 23 311
sex differences in pelvis of, 1943, 23 149
skeletal development and sex hormones, 1943, 23 146
urinary androgens, 1937, 17 165
- SHERINGTON PHENOMENON**
sympathetic vasodilatation, 1938, 18 147
- SHOCK**
adrenocortical influences, 1942, 22 107
aortic adaptation, 1942, 22 112
autopsy findings, 1942, 22 85
blood volume, 1942, 22 109
burn, treatment, 1945, 25 546
cardiac output, 1942, 22 87
cause of death, 1942, 22 104
criteria, 1942, 22 84
definition, 1942, 22 77
electrolyte distribution, 1951, 31 299
experimental, equivalent of conditions, 1942, 22 81
 production, 1942, 22 77
gravity, definition, 1943, 23 234
hemorrhage, 1942, 22 113
high oxygen tension in therapy, 1945, 25 113
initiating and consequential mechanisms, of 1942, 22 90
ischemia, capillary damage, 1942, 22 105
myocardial depression, 1942, 22 112
nucleic acid derivatives, 1936, 16 318
peptone, heparin, 1944, 24 302
phases, 1951, 31 502
potassium, 1940, 20 394, 1942, 22 108
present status of problem, 1942, 22 74
primary arteriolar constriction, 1942, 22 93
 dilatation, 1942, 22 91
primary injury and dilatation of capillaries, 1942, 22 98
problem of toxic agent, 1942, 22 100
vasoconstriction, 1942, 22 95
- SHEW**
metabolic rate per day, 1947, 27 529
- SHRIMP** *see* CRUSTACEA
- SICKLE CELL ANEMIA** *see* ANEMIA, SICKLE CELL
- SIDEROPHILIN**
iron transport, 1951, 31 370
- SILBERBERG, M.** Causes and mechanism of thrombosis, 1938, 18 197

- SPIROGYRA**
strength-duration curve, 1936, 16 409
- SPLANCHNIC NERVES**
epinephrine and, 1945, 25 388
- SPLEEN**
blood flow, nucleic acids, 1936, 16 301
blood production, 1942, 22 376
decompression sickness, 1947, 27 386
erythrocytopoietic activity, thyroxine, 1942, 22 379
evipan, 1939, 19 172
fetal, silicon, 1938, 18 334
silica of, 1938, 18 334
- SPONGES** *see* PORIFERA
- SPOROZOA**
nutrition, 1941, 21 12
- SPREADING-FACTOR** *see* HYALURONIDASE, 1947, 27 457
- SPRUE**
folic acid, 1948, 28 88
prophytyns, 1940, 20 453
thymine, 1948, 28 90
- SQUID**
cholinesterase activity of nervous system, 1945, 25 629
- SQUIRREL**
adrenal glands, gonadectomy and, 1945, 25 211
sex hormones, 1945, 25 214
changes in adrenals with reproduction, 1945, 25 207
- STADIE, W. C.** Fatty acid metabolism, 1945, 25 395
- STANDING**
biodynamics, 1943, 23 225
compensation for hydrostatic effect of gravity, 1943, 23 231
energy cost, 1943, 23 230
neurological basis, 1943, 23 227
- STANLEY, W. M.** The architecture of viruses, 1939, 19 524
- STAPHYLOCOCCUS TOXIN**
permeability of C.N.S. capillaries to, 1942, 22 130
- STARE, F. J.** *see* BAUMANN, C. A.
- STARVATION** *see* INANITION
- STEADY STATE**
muscular work, 1936, 16 273
- STEARNS, GENEVIEVE** Mineral metabolism of normal infants, 1939, 19 415
- STERILITY**
irradiation of proteins, 1936, 16 675
vitamin E deficiency, 1942, 22 255
- STERNAL PUNCTURE**
technic, 1944, 24 51
- STEROIDS**
as antiepileptics, 1948, 28 423
comparison of effects on water metabolism, 1949, 29 296
development of mammary gland, 1944, 24 347
isotopic, metabolism, 1940, 20 233
- STICKLAND REACTION**
in intermediary metabolism, 1941, 21 301
- STILBENE**
S/L ratio, (pro-estrogens), 1948, 28 26
- STILBESTROLS**
S/L ratio, 1948, 28 25
- STOCKEN, L. A. AND THOMPSON, R. H. S.** BAL reactions, 1949, 29 168
- STOKSTAD, E. L. R.** *see* JUKES, T. H.
- STOMACH**
absorption in, 1948, 28 433
cholinergic nerves, 1937, 17 491
cholinesterase in, 1951, 31 337
fore, hyperplasia, 1944, 24 147
histochemical studies, 1941, 21 256
mucosa, carbonic anhydrase and, 1946, 26 564
permeability, anoxia and, 1941, 21 314
silica of, 1938, 18 334
strength-duration curve, 1936, 16 409
x-ray studies, 1937, 17 619
- STRANDSKOV, H. H.** Genetics and physiology of human blood variations, 1944, 24 445
- STREPTOCOCCI**
activity of pteroylglutamic acid and related compounds, 1948, 28 62
- STREPTOCOCCUS DURANS**
activity of pteroylglutamic acid and related compounds, 1948, 28 62
- STREPTOCOCCUS INFECTIONS**
treatment of experimental with sulfanilamide, 1939, 19 243
- STREPTOMYCIN**
reversal of ultraviolet injury, 1950, 30 448
- STRESS**
adaptation syndrome, 1950, 30 298
adrenal cortex, 1950, 30 277
hypophysectomy, adrenalectomy, 1940, 20 501
17 ketosteroids, 1950, 30 358
metabolic changes in adrenal cortex, 1950, 30 284
of daily life, 17-ketosteroids, 1950, 30 359
pictorial scheme of adrenocortical response, 1950, 30 278
rate of utilization of cortical hormones, 1950, 30 282
requirement of nutrients, 1948, 28 118
resistance to, 1950, 30 289
adrenal cortex, 1944, 24 107, 1950, 30 289
sudden, temporary, adrenal cortex, 1950, 30 277
venous pressure during, 1950, 30 24
- STRIATE CORTEX**
brightness discrimination, 1939, 19 305
response to visual detail, 1939, 19 308
- STRONTIUM**
antagonism to veratrum alkaloids, 1946, 26 426
radioactive, therapeutic use of, 1944, 24 226
- STRYCHNINE**
acetylcholine metabolism, 1945, 25 630
action, body temperature, 1946, 26 255
gastric absorption, 1948, 28 436
in poikilotherms and homeotherms, 1946, 26 255
organization of cerebral cortex, 1944, 24 396, 1944, 24 398, 1944, 24 401, 1944, 24 402, 1944, 24 403
- STURGIS, C. C. AND BETHELL, F. H.** Variations in normal leukocytes, 1943, 23 279
- STUTTERING**
ethology, 1939, 19 49
handedness, 1939, 19 58
inherited defects, 1939, 19 56

- SODIUM**
 of muscle, 1936, 16 470
 and plasma, 1936, 16 455
 of normal muscle, 1936, 16 467
 of serum, after burns, 1945, 25 559
 and synovial fluid, 1940, 20 284
 renal retention, adrenal cortex, 1944, 24 92
 transport, in animal cells, 1949, 29 137
- SODIUM ARSANILATE**
 body temperature and action, 1946, 26 267
- SODIUM CHLORIDE**
 absorption, anoxia, 1941, 21 317
 bacteriophage, 1936, 16 137
 depletion, heat exchange, 1947, 27 216
 hyaluronidase activity, 1947, 27 343
 uptake in halocystis, 1949, 29 151
 urea clearance, 1941, 21 532
 versus potassium in muscle, 1936, 16 471
 water excretion, 1944, 24 507
- SODIUM FLUORIDE**
 bacteriophage, 1936, 16 137
 inhibition by, 1948, 28 293
- SODIUM FERROCYANIDE**
 permeability of C.N.S. capillaries, 1942, 22 134
- SODIUM HYDROXIDE**
 bacteriophage, 1936, 16 138
 diffusion potentials, 1936, 16 66
- SOLAR HEAT LOAD**
 total heat load, 1945, 25 516
- SOLVENTS**
 carcinogenesis, 1944, 24 178
- SOMATIC PAIN** *see* PAIN, deep 1947, 27 180
- SOMNOLENCE**
 brain stem injury, 1950, 30 467
- SOSKIN, S** The blood sugar, 1941, 21 140
- SOY BEAN**
 goiter, 1950, 30 527
 nicotinic acid of, 1940, 20 264
- SPARROW**
 bill, local action of estrogens, 1948, 28 39
- SPASTICITY**
 myanesis, 1950, 30 464
 reticular formation, 1950, 30 463
- SPECIFIC DYNAMIC ACTION**
 fructose and galactose, 1936, 16 192
 of food, body weight, 1944, 24 22
- SPECIFIC GRAVITY**
 human and canine prostatic fluids, 1945, 25 285
- SPEECH**
 oral movements, 1938, 18 69
 peripheral mechanism, stuttering, 1939, 19 50
 physical characteristics, 1938, 18 72
 physiology, 1939, 19 49
 pitch and accent, 1938, 18 73
 resonance and production, 1938, 18 70
 respiratory movements, 1938, 18 65
- SPEERT, H.** Local action of sex hormones, 1948, 28 23
- SPERMATOCYTES**
 sensitivity to radiation, 1944, 24 231
- SPERMATOGENESIS**
 anterior pituitary, placental extracts, 1938, 18 433
- secretory activity in male accessory glands, 1951, 31 35
- SPERMATOZOA**
 antifertilizin, 1948, 28 193
 egg surface lysin from, 1948, 28 210
 egg membrane lysis by, 1948, 28 206
 fate of tail, 1951, 31 18
 fertilizing capacity, morphology, 1951, 31 4
 motility, 1951, 31 3
 lytic agents from, 1948, 28 206
 motility test, 1937, 17 159
 number needed for fertilization, 1951, 31 2
 penetration into ova, 1951, 31 12
 physiology in female tract, 1951, 31 5
 production, maturation, senility and fertilization, 1951, 31 1
 prostatic fluid, 1945, 25 288
 transport from vagina to fallopian tubes, 1951, 31 4
 viability in female tract, 1951, 31 6
 zinc, in, 1949, 29 373
- SPHINGOMYELINS**
 chemistry, 1946, 26 285
 definition, 1946, 26 276
 fatty acids, 1946, 26 278
 tests for purity, 1946, 26 286
- SPHINGOSINE**
 structure, 1946, 26 285
- SPIDERS**
 venom, physiological effects, 1945, 25 153
- SPIDERS, BLACK WIDOW**
 physiological effects of bite, 1945, 25 155
- SPINAL CORD**
 acetylcholine, 1945, 25 601
 alpha fibers in, 1944, 24 10
 ascending projection systems, 1944, 24 6
 ascorbic acid, 1939, 19 178
 barbiturates, 1939, 19 477
 constitution of afferent nerves, 1944, 24 3
 corticospinal effects, 1944, 24 9
 dorsal columns, 1944, 24 6
 effector mechanisms for sexual behavior, 1947, 27 253
 epinephrine and acetylcholine, 1945, 25 380
 eserine, 1947, 25 608
 extrasynaptic influences, 1944, 24 12
 Flechsig's system, 1944, 24 7
 function in arrest of circulation, 1950, 30 381
 functional organization, 1944, 24 1
 inhibition, 1944, 24 10
 local spinal mechanism, 1944, 24 2
 mediation of long reflex pathways, 1944, 24 5
 posterior root fibres, to muscle, 1939, 19 28
 postural control, 1944, 24 10
 pyramidal system, 1944, 24 8
 regeneration, 1942, 22 353
 sensory pathways, 1946, 26 83
 silica of, 1938, 18 334
 ventral root innervation, of muscle, 1939, 19 30
 ventrolateral descending tracts, 1944, 24 8
- SPIRACLES** *see* INSECTS
- SPIROCHAETES**
 electrical charge and permeability of C.N.S. capillaries to, 1942, 22 137

- SPIROGYRA**
strength-duration curve, 1936, 16 409
- SPLANCHNIC NERVES**
epinephrine and, 1945, 25 388
- SPLEEN**
blood flow, nucleic acids, 1936, 16 301
blood production, 1942, 22 376
decompression sickness, 1947, 27 386
erythropoietic activity, thyroxine, 1942, 22 379
evipan, 1939, 19 172
fetal, silicon, 1938, 18 334
silica of, 1938, 18 334
- SPONGES** *see* PORIFERA
- SPOROZOA**
nutrition, 1941, 21 12
- SPREADING-FACTOR** *see* HYALURONIDASE, 1947, 27 457
- SPRUCE**
folic acid, 1948, 28 88
prophyrins, 1940, 20 453
thymine, 1948, 28 90
- SQUID**
cholinesterase activity of nervous system, 1945, 25 629
- SQUIRREL**
adrenal glands, gonadectomy and, 1945, 25 211
sex hormones, 1945, 25 214
changes in adrenals with reproduction, 1945, 25 207
- STADIE, W. C.** Fatty acid metabolism, 1945, 25 395
- STANDING**
biodynamics, 1943, 23 225
compensation for hydrostatic effect of gravity, 1943, 23 231
energy cost, 1943, 23 230
neurological basis, 1943, 23 227
- STANLEY, W. M.** The architecture of viruses, 1939, 19 524
- STAPHYLOCOCCUS TOXIN**
permeability of C.N.S. capillaries to, 1942, 22 130
- STARE, F. J.** *see* BAUMANN, C. A.
- STARVATION** *see* INANITION
- STEADY STATE**
muscular work, 1936, 16 273
- STEARNS, GENEVIEVE** Mineral metabolism of normal infants, 1939, 19 415
- STERILITY**
irradiation of proteins, 1936, 16 675
vitamin E deficiency, 1942, 22 255
- STERNAL PUNCTURE**
technic, 1944, 24 51
- STEROIDS**
as antiepileptics, 1948, 28 423
comparison of effects on water metabolism, 1949, 29 296
development of mammary gland, 1944, 24 347
isotopic, metabolism, 1940, 20 233
- STICKLAND REACTION**
in intermediary metabolism, 1941, 21 301
- STILBENE**
S/L ratio, (pro-estrogens), 1948, 28 26
- STILBESTROLS**
S/L ratio, 1948, 28 25
- STOCKEN, L. A. AND THOMPSON, R. H. S.** BAL reactions, 1949, 29 168
- STOKSTAD, E. L. R.** *see* JUKES, T. H.
- STOMACH**
absorption in, 1948, 28 433
cholinergic nerves, 1937, 17 491
cholinesterase in, 1951, 31 337
fore, hyperplasia, 1944, 24 147
histochemical studies, 1941, 21 256
mucosa, carbonic anhydrase and, 1946, 26 564
permeability, anoxia and, 1941, 21 314
silica of, 1938, 18 334
strength-duration curve, 1936, 16 409
x-ray studies, 1937, 17 619
- STRANDSKOV, H. H.** Genetics and physiology of human blood variations, 1944, 24 445
- STREPTOCOCCI**
activity of pteroylglutamic acid and related compounds, 1948, 28 62
- STREPTOCOCCUS DURANS**
activity of pteroylglutamic acid and related compounds, 1948, 28 62
- STREPTOCOCCUS INFECTIONS**
treatment of experimental with sulfanilamide, 1939, 19 243
- STREPTOMYCES**
reversal of ultraviolet injury, 1950, 30 448
- STRESS**
adaptation syndrome, 1950, 30 298
adrenal cortex, 1950, 30 277
hypophysectomy, adrenalectomy, 1940, 20 501
17 ketosteroids, 1950, 30 358
metabolic changes in adrenal cortex, 1950, 30 284
of daily life, 17-ketosteroids, 1950, 30 359
pictorial scheme of adrenocortical response, 1950, 30 278
rate of utilization of cortical hormones, 1950, 30 282
requirement of nutrients, 1948, 28 118
resistance to, 1950, 30 289
adrenal cortex, 1944, 24 107, 1950, 30 289
sudden, temporary, adrenal cortex, 1950, 30 277
venous pressure during, 1950, 30 24
- STRIATE CORTEX**
brightness discrimination, 1939, 19 305
response to visual detail, 1939, 19 308
- STRONTIUM**
antagonism to veratrum alkaloids, 1946, 26 426
radioactive, therapeutic use of, 1944, 24 226
- STRYCHNINE**
acetylcholine metabolism, 1945, 25 630
action, body temperature, 1946, 26 255
gastric absorption, 1948, 28 436
in poikilotherms and homeotherms, 1946, 26 255
organization of cerebral cortex, 1944, 24 396, 1944, 24 398, 1944, 24 401, 1944, 24 402, 1944, 24 403
- STURGIS, C. C. AND BETHELL, F. H.** Variations in normal leukocytes, 1943, 23 279
- STUTTERING**
etiology, 1939, 19 49
handedness, 1939, 19 58
inherited defects, 1939, 19 56

STUTTERING

- physiology, 1939, 19 49
- psychological problem, 1939, 19 52
- speech mechanism, 1939, 19 50
- treatments, 1939, 19 50

STYRYLACETIC ACID

- antagonism to tryptophane, 1947, 27 314

SUBCUTIS

- histology, 1946, 26 508

SUCCINATE

- antagonistic structural analogs, 1947, 27 314
- decarboxylation, 1951, 31 98
- fixation of carbon dioxide, 1946, 26 215
- inhibition of brain metabolism, 1939, 19 173
- intermediary metabolite, 1941, 21 268
- oxidation in brain, 1939, 19 164
- phosphate carrier, 1948, 28 297
- sulfonated, antagonism to succinic acid, 1947, 27 314

SUCCINO-DEHYDRASE

- of denervated muscle, 1939, 19 24

SUCCINOXIDASE

- inhibition by selenium, 1943, 23 326
- thyroxin, 1951, 31 216

SUGARS

- as diuretics, 1944, 24 520

SULFANILAMIDES

- absorption, excretion and distribution, 1939, 19 250
- antagonism to p-aminobenzoic acid, 1945, 25 690, 1947, 27 312
- chemical constitution and chemotherapeutic action, 1939, 19 252
- inhibition of thyroxin formation, 1950, 30 202
- mechanism of action, 1939, 19 254
- mode of action on thyroids, 1950, 30 198
- pharmacology, 1939, 19 240
- toxicity and pharmacological effects, 1939, 19 248

SULFATE

- absorption of, anoxia, 1941, 21 318
- clinical significance of changes, 1940, 20 30
- of synovial fluid and serum, 1940, 20 284

SULFHYDRYL GROUPS

- inactivation by alloxan, 1949, 29 62
- reversible inactivation of enzymes, 1937, 17 464

SULFIDE

- permeability of C.N.S. capillaries to, 1942, 22 134

SULFONAL POISONING

- porphyrins, 1940, 20 456

SULFONAMIDES

- inhibition of carbonic anhydrase, 1946, 26 563
- mechanism of action, 1945, 25 687
- permeability of C.N.S. capillaries to, 1942, 22 134
- permeability of skin, 1946, 26 531
- porphyrins, 1940, 20 458

SULFONIC ACIDS

- detoxication, 1939, 19 339

SULFUR

- isotopic, preparation of compounds, 1940, 20 225
- metabolism in infants, 1939, 19 428
- requirement of protozoa, 1941, 21 4

SULFURIC ACID

- esters, localization in cells, 1941, 21 250
- source, in detoxication, 1939, 19 341

SUNBURN

- acquired immunity, 1945, 25 501
- basic process, 1945, 25 491
- circulatory effects, 1945, 25 517
- metabolism and growth, 1945, 25 518
- quantitative aspects, 1945, 25 504
- sunlight, 1945, 25 490

SUNLIGHT

- as limiting environmental factor, 1945, 25 522
- circulatory effects, 1945, 25 517
- endocrine glands, 1945, 25 519
- eyes, 1945, 25 512
- formation of vitamin D, 1945, 25 508
- penetration into human body, 1945, 25 486
- physiological effects, 1945, 25 483
- reflection, by skin, 1945, 25 489
- skin pigment and sensitivity, 1945, 25 523
- spectrum, 1945, 25 483
- systemic effects in man, 1945, 25 515
- temperature, 1945, 25 510
- therapeutic effects, 1945, 25 520

SUNTAN

- melanin formation, 1945, 25 499, 1950, 30 119
- sunburn, 1945, 25 497

SURFACE AREA

- of cells at various ages, 1943, 23 81

SURFACE LAW

- critique, 1947, 27 516
- empirical validity, 1947, 27 525
- integration of valid theory, 1947, 27 524
- theoretical validity, 1947, 27 516

SURFACE TENSION

- of irradiated protein solutions, 1936, 16 680

SWANN, H. G. Pituitary-adrenocortical relationship, 1940, 20 493

SWEAT

- composition, 1946, 26 501
- formation, 1946, 26 501
- iodine in, 1940, 20 353
- measurement, 1944, 24 504
- restricted evaporation, and heart rate, 1936, 16 277

SWEAT GLANDS

- cholinergic, 1937, 17 490
- tests for autonomic function with, 1943, 23 3

SWEATING

- acclimatization, 1947, 27 219
- depletion of sodium, 1936, 16 274
- heat exchange, 1947, 27 215
- intraventricular injection of acetylcholine, 1945, 25 600
- water exchange, 1944, 24 503

SWINE

- adrenal glands and gonadectomy, 1945, 25 211
- anesthetic dose, 1939, 19 496
- essential fatty acid requirement, 1943, 23 262
- fluoride intoxication, 1940, 20 594
- folic acid, 1948, 28 79
- hemolysis of erythrocytes from, 1936, 16 38
- insulin of pancreas, 1944, 24 413
- 17 ketosteroids of urine, 1950, 30 367
- metabolic rate per day, 1947, 27 529
- nicotinic acid of, 1940, 20 264

- oxygen consumption of lens, 1937, 17 8
 rhythmic activity in, 1949, 29 8
- SWINGLE, W. W. AND REMINGTON, J. W. Adrenal cortex in physiological processes, 1944, 24 89
- SYMPATHETIC NERVOUS SYSTEM**
 atropine, 1937, 17 380
 cervical ganglion, oxygen consumption and blood flow, 1936, 16 583
 cholinergic vasodilators, 1937, 17 493
 colonic secretion, 1941, 21 61
 denervation of muscle, 1939, 19 29
 effector mechanisms in for sexual behavior, 1947, 27 255
 ergonovine, 1938, 18 319
 fibers, cholinesterase in, 1946, 26 369
 ganglia, acetylcholine, 1945, 25 388, 1946, 26 371
 cholinesterase in, 1946, 26 369
 epinephrine and, 1945, 25 386
 intestinal secretion, 1941, 21 53
 nerves, acetylcholine of, 1946, 26 371
 postganglionic fibres, 1937, 17 490
 transmission of impulses in, 1937, 17 514
 vasodilator fibers of, 1937, 17 491, 1938, 18 137
- SYMPATHIN**
 E and I, 1937, 17 519
 relation to epinephrine, 1937, 17 515, 1937, 17 517
 release from organs on stimulation, 1937, 17 516
 sympathetic nerve impulse, 1937, 17 514
see also EPINEPHRINE
- SYMPATHO-ADRENAL SYSTEM**
 role in secretion of adrenocortical hormone, 1950, 30 274
- SYMPATHOMIMETIC AMINES**
 excretion, 1946, 26 184
 inactivation, 1946, 26 178
 structure and activity, 1946, 26 169
 structure and pharmacologic action, 1946, 26 185
- SYNAPSE**
 artificial, 1947, 27 647
 endings as axon enlargements, 1942, 22 147
 degeneration of, 1942, 22 152
 environment in, 1942, 22 153
 function after arrest of circulation, 1950, 30 383
 function, cytology, 1942, 22 146
 histological details, 1942, 22 146
 membrane, 1942, 22 150
 mitochondria at, 1942, 22 151
 neurofibrils at, 1942, 22 151
 regulation and regeneration of endings, 1942, 22 151
 spatial relations in, 1942, 22 154
- SYNAPTOLEMMIA** *see* SYNAPSE, membrane of
- SYNOVIAL FLUID**
 cells and mucin of, 1950, 30 159
 chemical composition, 1940, 20 284
 hyaluronidase, 1947, 27 351
 properties, 1940, 20 280
- SYNOVIAL MEMBRANE**
 permeability to proteins, 1940, 20 299
 properties, 1940, 20 279
- SZENT GYÖRGYI CYCLE** *see* CITRIC ACID CYCLE
- TACHYPHYLAXIS**
 veratrum alkaloids, 1946, 26 397
- TAENIA**
 immunity to, 1940, 20 474
- TAILED AMPHIBIANS** *see* SALAMANDERS
- TALIAFERRO, W. H.** Immunity to infections with parasitic worms, 1940, 20 469
- TANNIC ACID**
 liver lesions, 1945, 25 554
- TASTE (INSECTS)**
 in insects, 1948, 28 220
 intensity discrimination, 1948, 28 245
 modalities, 1948, 28 246
 sensitivity, 1948, 28 243
- TATUM, A. L.** Present status of barbiturate problem, 1939, 19 472
- TAUROCHOLATE**
 cell-serum system, hemolysis, 1936, 16 46
- TAY-SACKS DISEASE**
 characteristics, 1946, 26 309
 lipid metabolism, 1946, 26 309
- TEETH**
 enamel hypoplasia and vitamin deficiency, 1945, 25 445
 fluorosis, 1945, 25 464
 hypervitaminosis D, 1942, 22 251
 hypocalcification, 1945, 25 469
 hypoplasia, 1945, 25 469
 silica of, 1938, 18 334
 studies of pain, 1946, 26 89
 vitamin A deficiency, 1942, 22 236, 1945, 25 443
 vitamin C deficiency, 1945, 25 450
 vitamin D deficiency, 1942, 22 249
- TELLURIUM**
 industrial hazard, 1945, 25 193
- TEMPERATURE**
 bacteriophage, 1936, 16 133
 changes in, adrenal cortex, 1944, 24 108
 hemolysis, 1936, 16 37
 insensible loss of water, 1942, 22 5
 molecular films, 1936, 16 93
 neoplasms in cold blooded vertebrates, 1949, 29 115
 oxygen consumption of brain in vitro, 1939, 19 145
 urea clearance, 1941, 21 537
 wound healing, 1936, 16 377
- TENDON**
 silica of, 1938, 18 334
- TENON'S CAPSULE**
 exophthalmos, 1949, 29 268
- TERATOMA** *see* NEOPLASMS
- TESTES**
 anterior pituitary, 1937, 17 212
 blood production in, 1942, 22 377
 evipan, 1939, 19 172
 17-ketosteroids, 1950, 30 346
 removal, sexual behavior, 1947, 27 275
 silica of, 1938, 18 334
 vitamin A distribution, 1944, 24 216
- TESTOSTERONE**
 acetate, formulae and physiological activity, 1937, 17 189

TESTOSTERONE

- antagonistic structural analogs, 1947, 27 314
- benzoate, formulae and physiological activity, 1937, 17 189
- citric acid in semen, 1951, 31 40
- dependence of male accessory organs on, 1951, 31 30
- 17-ethyl, formulae and physiological activity, 1937, 17 187
- excretion of 17 ketosteroids, 1950, 30 327
- extraction and purification from testis, 1937, 17 169
- formulae and physiological activity, 1937, 17 189
- fructose in castrated animals, 1951, 31 36
- in vitro metabolism, 1950, 30 329
- in vivo metabolism, 1950, 30 328
- 17-methyl, formulae and physiological activity, 1937, 17 189

TETANUS TOXIN

- acetylcholine metabolism, 1945, 25 630
- body temperature and action, 1946, 26 267
- permeability of C.N.S. capillaries to, 1942, 22 129

TETRACHLOROETHANE

- industrial health hazard, 1942, 22 176

TETRACHLOROETHYLENE

- industrial health hazard, 1942, 22 176

TETRAETHYLAMMONIUM

- curariform activity, 1936, 16 534

TETRAETHYLPIROPHOSPHATE

- formula and trivial name, 1951, 31 328

TETRAHYMENA GELII

- activity of pteroylglutamic acid and related compounds, 1948, 28 62

TETRAMETHYLAMMONIUM

- chloride, lipotropic action, 1944, 24 152
- ion, curariform activity, 1936, 16 533

THALAMUS

- projections to cerebral cortex, 1944, 24 394

THANNHAUSER, S. J. AND SCHMIDT, G.

- Lipins and lipidoses, 1946, 26 275

THEOBROMINE

- urea clearance, 1941, 21 536

THEOCIN

- urea clearance, 1941, 21 536

THEOPHYLLINE

- urea clearance, 1941, 21 536

THIAMIN

- analog, 1945, 25 703
- antagonistic structural analogs, 1947, 27 314
- brain metabolism, 1939, 19 163
- chemical determination, 1949, 29 395
- enrichment of bread, 1944, 24 262
- enzymatic destruction, 1949, 29 394
- fatty livers treated with choline, 1944, 24 135
- fortification of bread, 1944, 24 251
- inactivation, in Chastek paralysis, 1949, 29 392
- intestinal absorption, 1948, 28 109
- microbiological assay, 1948, 28 257
- extraction procedure, 1948, 28 272
- of tissues, hyperthyroidism, 1943, 23 367
- of white, enriched white, and whole wheat flours, 1944, 24 272
- oxidation reduction system, 1939, 19 204
- plant growth, 1938, 18 538

- sparing action of fat, 1943, 23 267
- storage in liver, 1942, 22 60

THIAMIN DEFICIENCY

- acetylcholine metabolism, 1945, 25 632
- due to thiaminase, 1949, 29 400
- oral tissues, 1945, 25 446
- thyroid gland, 1943, 23 363
- tissue changes, 1942, 22 259

THIAMIN PYROPHOSPHATE**THIAMIN THIAZOLE PYROPHOSPHATE**

- antagonism to cocarboxylase, 1947, 27 312

THIAMINASE

- characteristics, 1949, 29 397
- Chastek paralysis factor, 1949, 29 389
- distribution, 1949, 29 398
- purification, 1949, 29 396

THIAZOLE CARBOXAMIDE

- antagonism to nicotinic acid, 1947, 27 313

THIENYL-ALANINE

- metabolic inhibition of phenylalanine, 1945, 25 698, 1947, 27 313

THIMANN, K. V. AND BONNER, J.

- Plant growth hormones, 1938, 18 524

THIOCYANATES

- diffusion into joint spaces, 1940, 20 297
- industrial health hazards, 1942, 22 178
- inhibition of carbonic anhydrase, 1946, 26 563
- inhibition of iodine-concentrating mechanism of thyroid, 1950, 30 195
- permeability of C.N.S. capillaries, 1942, 22 134

THIOLS

- oxidation reduction system, 1939, 19 199

THIOPANIC ACID

- analog of pantothenic acid, 1945, 25 700
- antagonism to pantothenic acid, 1947, 27 313

THIOPENTOL

- anesthetic dose in various species, 1939, 19 496

THIOURACILS

- antagonism to uracil, 1947, 27 314
- inhibition of thyroxine formation, 1950, 30 202
- mode of action on thyroids, 1950, 30 198

THIOUREA

- inhibition of thyroxine formation, 1950, 30 202

THIRST

- water exchange, 1944, 24 499

THOMPSON, K. W.

- Antihormones, 1941, 21 588

THOMPSON, R. H. S.

- see STOCKEN, L. A.

THORIUM

- hydroxide, enzymes, 1950, 30 424

THREONINE

- essential amino acid, 1938, 18 123
- microbiological assay, 1949, 29 247

THROMBIN

- action of heparin, 1944, 24 299
- calcium in preparations, 1936, 16 655

THROMBO-EMBOLISM

- white, 1951, 31 119

THROMBOPLASTIN

- calcium, 1936, 16 657

THROMBOSIS

- cause and mechanism, 1938, 18 197
- clinical significance, 1938, 18 199

- experimental fibrin, 1938, 18 217
 inflammation, 1938, 18 221
 mechanical factors and endothelium, 1938, 18 218
 mechanism of cell-agglutination, 1938, 18 205
 pathology, 1938, 18 201
 platelets, 1951, 31 124
 prevention by dicumarol, 1944 24 310
 white, 1951, 31 121
- THROMBUS**
 appearance, structure and origin, 1938, 18 198
 mechanism of coagulation, 1938, 18 213
 platelet, 1938, 18 209
 red corpuscle, 1938, 18 211
 white cell, 1938, 18 213
- THYLAKENTRIN** *see* FOLLICLE-STIMULATING HORMONE
- THYMINE**
 antagonistic structural analogs, 1947, 27 314
 blood pressure, 1936, 16 298
 folic acid, 1948, 28 65
 pernicious anemia, 1948, 28 84
 sprue, 1948, 28 90
 ultraviolet radiation, 1950, 30 447
- THYMUS**
 androgens, 1937, 17 200
 leukemia, 1946, 26 54
 sexual behavior, 1947, 27 285
 silica of, 1938, 18 334
 tissue culture, 1937, 17 606
- THYROID GLAND**
 activity, tissue vitamin C, 1943, 23 371
 vitamin B-complex, 1943, 23 368
 adrenal cortex, in water metabolism, 1949, 29 298
 bone growth, 1937, 17 135
 calcification, 1940, 20 549
 carbohydrate metabolism, 1941, 21 165
 exophthalmos, 1949, 29 263
 function, carotene metabolism, 1943, 23 359
 vitamin A, 1943, 23 358
 vitamin metabolism, 1943, 23 355
 histochemical studies, 1941, 21 255
 insulin of pancreas, 1944, 24 423
 iodine metabolism, 1940, 20 363
 17-ketosteroids, 1950, 30 345
 lactation, 1936, 16 512, 1944, 24 352
 mammary gland development, 1944, 24 346
 mode of action of anti-compounds, 1950, 30 194
 obesity, 1944, 24 39
 phlorhizin, 1945, 25 263
 pituitary gland, 1951, 31 205
 reserve of iodine in, 1940, 20 348
 silica of, 1938, 18 334
 tissue culture, 1937, 17 606
 tumors of, in fish, 1949, 29 100
 vitamin A, 1943, 23 356
 vitamin B-complex, 1943, 23 363
 vitamin C, 1943, 23 369
 vitamin D, 1943, 23 372
 vitamin E, 1943, 23 373
 water balance, 1944, 24 514
- THYROID PREPARATIONS**
 antibody formation with, 1941, 21 611
 localized response to implantation, 1951, 31 213
- nature of thyroid hormone, 1951, 31 225
 potency, 1940, 20 368
- THYROIDECTOMY**
 histological changes in anterior pituitary, 1937, 17 568
- THYROTROPIC HORMONE** *see* THYROTROPIC HORMONE
- THYROTROPIC ANTIHORMONE**
 effects in animals, 1941, 21 616
- THYROTROPIC HORMONE**
 carbohydrate metabolism, 1938, 18 11
 definition, 1946, 26 575
 exophthalmos, 1949, 29 264
 hypothalamus, 1948, 28 165
 methods of assay, 1946, 26 589
 preparation, 1946, 26 589
 properties, 1946, 26 593
 toxemia of pregnancy, 1948, 28 1
 vitamin A, 1943, 23 361
 vitamin B-complex, 1943, 23 367
 vitamin C, 1943, 23 371
 vitamin E, 1943, 23 374
- THYROTROPHIN** *see* THYROTROPIC HORMONE
- THYROTROPIN** *see* THYROTROPIC HORMONE
- THYROXIN**
 analogs, 1951, 31 227
 antagonistic structural analogs, 1947, 27 314
 antithyroid principles, 1941, 21 609
 body functions altered by or dependent on, 1951, 31 206
 body temperature and action, 1946, 26 265
 cytochrome c, 1951, 31 421
 daily production, 1940, 20 364
 epinephrine and, exophthalmos, 1949, 29 273
 erythrocytopoietic activity of spleen, 1942, 22 379
 exophthalmos, 1949, 29 273
 fat and glycogen deposition, 1948, 28 459
 in vitro effects, 1951, 31 220
 in vivo response to, 1951, 31 207
 inhibition by various compounds, 1951, 31 230
 manufacture, iodine, 1940, 20 361
 mechanism of action, 1951, 31 205
 nature, 1951, 31 225
 sexual behavior, 1947, 27 285
 synthesis and control, 1951, 31 228
 toxemia of pregnancy, 1948, 28 3
 wound healing, 1936, 16 385
- TICKLING**
 pain, itching, 1941, 21 365
- TISSUE CULTURE**
 cellular differentiation, 1937, 17 589
 cellular multiplication, 1937, 17 597
 migrating cells, 1937, 17 597
 nervous, 1937, 17 608
 of leukemic cells, 1946, 26 61
 protein anabolism, 1936, 16 8
 techniques, 1937, 17 597
 thyroxin 1951, 31 220
- TISSUE EXTRACT**
 capillary permeability, 1947, 27 457
- TISSUE, NERVOUS**
 culture, 1937, 17 608

TISSUES

- animal, silicon in, 1938, 18 332
- autolysis, 1938, 18 173
- blood-forming, phylogenetic history, 1942, 22 381
- damage, in bacterial and arthus hypersensitivity, 1941, 21 72
- fluid accumulation in right sided heart failure, 1938, 18 101
- freezing, damage, 1949, 29 160
- hydration, adrenocortical hormones, 1949, 29 299
- injury in burns, 1945, 25 553
- intracellular, radiation, 1944, 24 230
- radio-sensitive, 1944, 24 228
- space, measurement in muscle, 1936, 16 456

TOAD

- alloxan diabetes, 1948, 28 306

TOBIAS, J M Microrespiration techniques, 1943, 23 51

TOCOPHEROLS

- α , antagonistic structural analogs, 1947, 27 314
- of white, enriched white, and whole wheat flours, 1944, 24 272
- quinone, antagonism to α -tocopherol, 1947, 27 314
- antagonism to vitamin K, 1947, 27 314

TOE

- vasomotor activity, yawning, 1946, 26 165

TOLUENE

- industrial health hazards, 1942, 22 183

TOLUIDIN BLUE

- bacteriophage, 1936, 16 138

TOLUIDINES

- industrial health hazard, 1942, 22 184

TOMAN, J E P AND GOODMAN, L S Anticonvulsants, 1948, 28 409

TORPEDO

- electric organ, cholinesterase, 1946, 26 369

TOUCH

- definition of cutaneous sense, 1946, 26 79
- neural mechanisms, 1946, 26 78

TOWER, SARAH S Reaction of muscle to denervation, 1939, 19 1

TOXEMIA

- due to burns, 1945, 25 550
- metabolism, 1939, 19 439
- of pregnancy, hormones, 1948, 28 1
- theories of etiology, 1948, 28 12

TOXINS

- adrenal cortex, 1944, 24 108
- destruction of beta cells, 1949, 29 67
- electrical charge and permeability of C.N.S. capillaries, 1942, 22 135
- permeability of C.N.S. capillaries to, 1942, 22 128
- vitamin C deficiency, oral structures, 1945, 25 452

TOKOFLAVINS

- oxidation reduction potentials, 1939, 19 197

TRACHEA

- dilatation, nucleic acid derivatives, 1936, 16 306

TRAGER, W Nutrition of invertebrates, 1941, 21 1

 Δ^6 -TRANS- Δ^7 -CHOLENE-3,17-BENZOATE-17 ANDROSTENEDIOLS

TRANSMISSION (NEURO-MUSCULAR)

- acetylcholine and, 1937, 17 485, 1937, 17 504

- action-current hypothesis, 1937, 17 549
- characteristics of muscarine like, 1937, 17 494
- chemical and electrical, 1937, 17 521
- chemical theories, 1937, 17 543
- curare, 1937, 17 507
- delay, 1937, 17 550
- "distant" effects, 1937, 17 497, 1937, 17 507
- duration, 1937, 17 495, 1937, 17 506
- eserine, 1937, 17 507
- isochronism, iterative system, 1936, 16 421
- latent period, 1937, 17 494, 1937, 17 506
- muscarine, 1937, 17 490
- nicotine-like, 1937, 17 499
- by acetylcholine, 1937, 17 506

- of sympathetic nerve impulses, 1937, 17 514
- paralysis by atropine, 1937, 17 498
- potassium, 1940, 20 387
- potentiation by eserine, 1937, 17 497
- summation, 1937, 17 496, 1937, 17 507
- synaptic and, 1937, 17 538
- veratrum alkaloids, 1946, 26 413

TRANSMISSION (SYNAPTIC)

- acetylcholine, 1937, 17 501, 1945, 25: 633
- at ganglion, 1937, 17 500
- in invertebrates, 1946, 26 367, 1947, 27 643
- acetylcholine, 1946, 26 367
- neuromuscular transmission, 1937, 17 538
- veratrum alkaloids, 1946, 26 413

TRANSPHOSPHORYLASE

- metallic ions, 1950, 30 422

TRAUMA

- adrenal cortex, 1944, 24 109
- due to cold, 1949, 29 156
- radiation injury, 1944, 24 233
- response, nucleic acid derivatives, 1936, 16 317
- surgical, electrolyte shifts in, 1951, 31 300

TRIACETIN

- hydrolysis by cholinesterases, 1951, 31 314

TRIAZOLOPYRIMIDINES

- antagonism to adenine, 1947, 27 312
- to guanine, 1947, 27 312

TRIBUTYRIN

- hydrolysis by cholinesterases, 1951, 31 314

TRICARBOXYLIC CYCLE *see* CITRIC ACID CYCLE

TRICHINELLA

- immunity to, 1940, 20 484

TRICHLOROETHANE

- α , industrial health hazard, 1942, 22 176
- β , industrial health hazard, 1942, 22 176

TRICHLOROETHYLENE

- industrial health hazard, 1942, 22 176

TRICHLORMETHYL-CHLORO-FORMATE

- industrial health hazard, 1942, 22 177

TRICHLOROPROPANE

- industrial health hazard, 1942, 22 176

TRIDIONE *see* TRIMETHADIONETRIETHYL CHOLINE *see* CHOLINE COMPOUNDSTRIETHYL- β -HYDROXYETHYLAMMONIUM HYDROXIDE

- hypotonic action, 1944, 24 151, 1944, 24: 152

TRIGEMINAL GANGLION *see* GANGLIA

TRIGONELLINE

- anti black tongue activity, 1940, 20 258

- TRIMETHADIONE
antiepileptic, 1948, 28 421
- TRIMETHYL γ HYDROXYPROPYLAMMONIUM HYDROXIDE
see HOMOCLOINE
- TRIMETHYLAMINE OXIDE
HCl, lipotropic action, 1944, 24 152
- TRIMETHYLAMMONIUM CHLORIDE
lipotropic action, 1944, 24 152
- TRIMETHYLENE see CYCLOPROPANE
- TRIMETHYLETHYLAMMONIUM CHLORIDE
lipotropic action, 1944, 24 152
- TRIMETHYLPHENYLAMMONIUM CHLORIDE
lipotropic action, 1944, 24 152
- TRINITROBENZENE
industrial health hazard, 1942, 22 185
- TRINITROGLYCEROL
industrial health hazard, 1942, 22 177
- TRINITROMETHANE
industrial health hazard, 1942, 22 177
- TRINITROTOLUENE
2,4,6, industrial health hazard, 1942, 22 186
- TRIPHENYLCHLOROETHYLENE
S/L ratio, 1948, 28 25
- TRIPHENYLMETHANE
4-hydroxy, S/L ratio, (pro-estrogens), 1948, 28 26
- TRIPHOSPHOPYRIDINE NUCLEOTIDE
chemistry, 1939, 19 358
determination, 1939, 19 356
mechanism of action, 1939, 19 361
preparation, 1939, 19 358
synonyms, 1939, 19 355
- TRIPROPYL- β -HYDROXYETHYLAMMONIUM CHLORIDE
lipotropic action, 1944, 24 152
- TRYPAN BLUE
permeability of C.N.S. capillaries, 1942, 22 128
staining of bone with, 1937, 17 131
- TRYPAEOSOMA
acetylcholine in, 1950, 30 181
electrical charge and permeability of C.N.S. capillaries, 1942, 22 137
- TRYPSIN
bacteriophage, 1936, 16 137
formation from trypsinogen, 1937, 17 148
reversible heat inactivation, 1937, 17 146
- TRYPSIN SHOCK
antihistamines, 1947, 27 564
- TRYPTOPHAN
absorption of ultraviolet light, 1950, 30 440
alternate metabolic pathways, 1950, 30 504
antagonistic structural analogs, 1947, 27 314
demonstration of essentiality, 1938, 18 111
function in protein synthesis, 1936, 16 13
microbiological assay, 1949, 29 247
in lactogenic hormone, 1946, 26 581
synthesis in neurospora, 1945, 25 655
- TUBERCLE BACILLUS
reaction of macrophages to, 1941, 21 131
- TUBERCULOSIS
allergy and immunity, 1938, 18 392
variations in leukocyte count, 1943, 23 288
- TUBERCULOSTEARIC ACID
chemistry, 1946, 26 278
- TUNGSTEN
industrial hazard, 1945, 25 189
- TURKEY
blood production, 1942, 22 378
- TURNER'S SYNDROME
17-ketosteroids, 1950, 30 358
- TURNP
goiter, 1950, 30 527
- TURTLE
alloxan diabetes, 1948, 28 306
anesthetic dose, 1939, 19 497
velocity of nerve conduction, 1946, 26 340
zinc in blood, 1949, 29 372
- TYLER, A. Fertilization and immunity, 1948, 28 180
- TYLER, D. B. AND BARD, P. Motion sickness, 1949, 29 311
- TYRAMINE
inhibition of brain metabolism, 1939, 19 175
- TYROSINASE
copper, 1950, 30 101
enzymatic structure, 1950 30 103
melanin formation, 1950, 30 91
properties, 1950, 30 101
sources, 1950, 30 100
substitute for insulin, 1949, 29 79
- TYROSINE
absorption of ultraviolet light, 1950, 30 440
alternate metabolic pathways, 1950, 30 504
in lactogenic hormone, 1946, 26 581
in melanin formation, 1950, 30 91
microbiological assay of, 1949, 29 247
non-essential amino acid, 1938, 18 124
oxidation, 1950, 30 98
synthesis, 1950, 30 199
- TYROSINURIA
inborn error of metabolism, 1948, 28 118
- ULTRAVIOLET ABSORPTION
as method of localizing nucleic acid, 1941, 21 252
- ULTRAVIOLET ABSORPTION SPECTRA
of denatured protein, 1936, 16 678
- ULTRAVIOLET LIGHT
wound healing, 1936, 16 378
- ULTRAVIOLET RADIATION
action spectra, 1950, 30 436
biological effects, 1950, 30 433
carcinogenesis, 1944, 24 187
inactivation of enzymes, 1950, 30 438
mechanism of injury, 1950, 30 451
melanin formation, 1950, 30 120
protoplasm, 1950, 30 431
reversal of effect, 1950, 30 448
- UMBILICAL ARTERY
oxygen saturation of blood, 1936, 16 124
- UMBILICAL CORD
silica of, 1938, 18 334
- UMBILICAL VIEW
O₂ saturation of blood, 1936, 16 122
- URACIL
antagonistic structural analogs, 1947, 27 314
blood pressure, 1936, 16 298
ultraviolet radiation, 1950, 30 447

- URANIN**
permeability of C N S capillaries to, 1942, 22 128
- URANIUM**
industrial hazard, 1945, 25 192
- UREA**
clearance, 1941, 21 536
clinical significance of changes, 1940, 20 6
diuretic, 1944, 24 520
excretion, 1944, 24 506
 in arthropoda, 1938, 18 47
fixation of carbon dioxide, 1946, 26 209
formation, 1946, 26 130
of blood, maintenance by liver, 1942, 22 54
of muscle and plasma, 1936, 16 455
of synovial fluid and serum, 1940, 20 284
permeability of collodion membranes to, 1936, 16 56
- UREASE**
inactivation, 1937, 17 457
inhibition by selenium, 1943, 23 326
localization in cells, 1941, 21 247
- URECHIS**
larvae, ultraviolet radiation, 1950, 30 443
- URETER**
action potentials, 1944, 24 479
barbiturates, 1939, 19 478
pressure in, 1937, 17 409
- UREYLENOCYCLOHEXYL ALIPHATIC ACID**
antagonism to biotin, 1947, 27 312
- URIC ACID**
acetic acid and formation, 1947, 27 603
alternate metabolic pathways, 1950, 30 505
clinical significance of changes, 1940, 20 7
endogenous, from nuclei of red blood cells, 1937, 17 300
excretion, in arthropoda, 1938, 18 47
of synovial fluid and serum, 1940, 20 284
- URICASE**
nature, 1939, 19 220
- URIDINE**
ultraviolet radiation, 1950, 30 447
- URINATION**
in arthropoda, 1938, 18 35
intraventricular injection of acetylcholine, 1945, 25 600
- URINE**
amino acids, 1949, 29 254
androgens, 1945, 25 241
 estrogens, 1945, 25 240
extraction, 1937, 17 165
concentration, 1944, 24 508
coproporphyrin, 1947, 27 480
hemoglobin, 1942, 22 19
microbiological assay of amino acids, 1949, 29 254
muscle hemoglobin, 1939, 19 506
nervous control of formation, 1944, 24 508
specific gravity, 1941, 21 549, 1941, 21 553
volume, after birth, 1948, 28 334
 glomerular filtration, 1941, 21 547
- URINE FLOW**
active glomeruli activity, 1937, 17 425
blood flow, 1937, 17 427
extrarenal pressure, 1937, 17 420
glomerular pressure, 1937, 17 413
intrarenal pressure, 1937, 17 421
obstruction to, hypertension, 1940, 20 168
ureter pressure, 1937, 17 409
venous pressure, 1937, 17 411
- UROANTHELONE**
discussion, 1950, 30 72
- UROGASTRONE**
definition, 1950, 30 68
excretion, 1950, 30 69
physiological action, 1950, 30 68
preparation and chemical properties, 1950, 30 70
- UROPORPHYRIN I** *see* PORPHYRINS
- UROPORPHYRIN III** *see* PORPHYRINS
- URPROTEIN**
definition, 1936, 16 3
- USSING, H. H.** Transport of ions across membranes, 1949, 29 127
- UTERUS**
acetomyosin in, 1951, 31 259
activity, function and sex behavior, 1937, 17 308
barbiturates, 1939, 19 478
blood flow, 1937, 17 326
 growth, 1937, 17 328
blood vessels, growth response, 1951, 31 249
cervix, silica of, 1938, 18 334
cholinergic nerves, 1937, 17 491
contractility, 1951, 31 256
 biochemical studies, 1951, 31 258
 spontaneous, 1951, 31 263
contraction, energetics, 1951, 31 262
 nature of, 1937, 17 302
control of lactation, 1936, 16 507
denervated, 1951, 31 254
energy rich phosphates of, 1951, 31 261
ergonovine, 1938, 18 314
growth and activity, 1951, 31 244
 characteristics of, 1951, 31 245
 functional response to, 1951, 31 250
 stimulus for, 1951, 31 245
innervation, estrin action, 1937, 17 316
 function, 1951, 31 252
 vascularity, 1951, 31 253
local action of estrogens, 1948, 28 28
menstruation, contraction, 1937, 17 328
 epithelial changes, 1937, 17 37
metabolism, anaerobic and aerobic, 1951, 31 263
motility, estrus cycle, 1937, 17 304
 hormonal control, 1937, 17 309, 1937, 17 320
muscle, antihistamines, 1947, 27 554
 metabolism and estrin action, 1937, 17 319
 stimulation, by nucleic acid derivatives, 1936, 16 306
nerve stimulation, 1951, 31 253
neurohypophysis, 1948, 28 147
non pregnant, as indicator of adrenergic effects, 1943, 23 12
 sympathin and, 1943, 23 9
ovarian activity, 1937, 17 307
parturition, 1938, 18 581
sensory corpuscles, 1951, 31 254

- silica of, 1938, 18 334
 vitamin A distribution in, 1944, 24 217
- V-12** *see* ETHYL- β -METHYL-ALLYL THIOBARBITURIC ACID
- VAGINA**
 action potentials, 1944, 24 480
 administration of estrogens, 1948, 28 23
 menstrual cycle, 1937, 17 43
- VAGUS NERVES**
 barbiturates, 1939, 19 473
 cerebral blood flow, 1936, 16 560
 veratrum alkaloids, 1946, 26 395
- VALERAMIDE**
 permeability of collodion membranes to, 1936, 16 56
- VALERIANIC ACID**
 permeability of collodion membranes to, 1936, 16 56
- VALERIC ACID**
 growth response of plant like flagellates, 1941, 21 3
- VALINE**
 essential amino acid, 1938, 18 128
 microbiological assay, 1949, 29 247
- VALLEE, B L AND ALTSCHULE, M. D** Zinc and carbonic anhydrase, 1949, 29 370
- VAN DER WAALS ATTRACTION**
 between antibody and antigen, 1943, 23 206
- VAN LIERE, E J** Effect of anoxia on alimentary tract, 1941, 21 307
- VAN NIEL, C B** Biochemical problems of chemo-autotrophic bacteria, 1943, 23 338
- VANADIUM**
 industrial hazard, 1945, 25 195
- VASCULAR REFLEXES**
 development in fetus, 1936, 16 117
- VASOCONSTRICTION**
 yawning, 1946, 26 165
- VASODILATATION**
 antidromic, 1937, 17 493
 cholinergic, 1937, 17 493
 in active muscle, 1938, 18 148
 sympathetic, central and local control, 1938, 18 137
 histamine, 1938, 18 144
 in intestine, 1938, 18 149
 in skin, 1938, 18 149
 veratrum alkaloids, 1946, 26 392
- VASOMOTION**
 factors which influence, 1947, 27 449
 fluid exchange, 1947, 27 446
 lymph flow, 1947, 27 450
 significance in capillary permeability, 1947, 27 454
- VASOMOTOR ACTIVITY**
 autonomic innervation, 1943, 23 6
 barbiturates, 1939, 19 476
- VASOMOTOR CENTER**
 resistance to anoxia, 1950, 30 378
- VASOMOTOR REACTION**
 itching, 1941, 21 372
- VDM**
 aerobic inactivation, 1951, 31 505
 anoxic liver, 1951, 31 502
 ferritin, 1951, 31 500
 identity with undenatured ferritin, 1951, 31 503
 test method, 1951, 31 501
- VEGETABLES**
 goitrogenic activity, 1950, 30 527
 nature of goitrogenic substances, 1950, 30 538
- VEINS**
 anastomoses with arteries, 1938, 18 229
 motor tone, 1950, 30 19
- VELLUS**
 definition, 1939, 19 95
- VENA CAVA**
 reflexes from, respiration, 1944, 24 329
- VENOMS**
 animal, physiologic action, 1945, 25 148
 problems of preservation, 1945, 25 156
- VENOUS BLOOD**
 in acclimatized and unacclimatized subjects, 1943, 23 177
- VERATRAMINE**
 formula, optical rotation and melting point, 1946, 26 385
- VERATRIDINE**
 comparison with protoveratrine, 1946, 26 398
 formula, optical rotation and melting point, 1946, 26 385
 hydrolysis products, 1946, 26 384
- VERATRINE**
 arthropod nervous system, 1946, 26 471
 definition, 1946, 26 387
- VERATRINIC RESPONSES**
 of various tissues, 1946, 26 433
- VERATROSINE**
 formula, optical rotation and melting point, 1946, 26 385
- VERATRUM ALBUM**
 Jugoslavian, alkaloids, 1946, 26 387
- VERATRUM ALKALOIDS**
 absorption, 1946, 26 390
 antagonism, 1946, 26 426
 Bezold effect, 1946, 26 399
 cardiodecelerator effect, 1946, 26 397
 chemistry, 1946, 26 383
 circulatory system, 1946, 26 392
 C.N.S., 1946, 26 395
 distribution, 1946, 26 390
 electrogram of nerve and muscle, 1946, 26 414
 elimination, 1946, 26 390
 epinephrine, 1946, 26 401
 factors affecting response 1946, 26 423
 heart, 1946, 26 403
 nature of vasodilator response, 1946, 26 394
 heart conduction, 1946, 26 406
 nerve conduction and transmission, 1946, 26 413
 nerve, muscle and, 1946, 26 408
 pharmacology, 1946, 26 383
 potassium theory of response, 1946, 26 432
 pressor and cardioaccelerator effect 1946, 26 399
 respiratory tract, 1946, 26 391
 toxicity, 1946, 26 387
 vagus and response to, 1946, 26 395
 vasoconstrictor response, 1946, 26 400

VERTEBRATES

- acetylcholine of nervous tissue, 1946, 26 371
- cholinesterase in nervous and neuromuscular tissues, 1946, 26 369
- cold blooded, neoplasms, 1949, 29 91, 1949, 29 118
- rhythmic activity, 1949, 29 6
- color patterns, 1948, 28 383
- embryos, heart beat, 1949, 29 31
- rhythmic color change, 1949, 29 6
- velocity of nerve conduction, 1946, 26 341

VESICULASE

- in semen, 1951, 31 47

VESTIBULAR FUNCTION

- in motion sickness, 1949, 29 321
- tests, for motion sickness, 1949, 29 345

VICKERY, H B The proteins of plants, 1945, 25 347

VILLIKININ

- definition, 1950, 30 78

VINCENT'S INFECTION

- vitamin B deficiency, 1945, 25 450
- vitamin C deficiency, 1945, 25 455

VINYL CHLORIDE

- anesthetic gas, 1938, 18 461
- industrial health hazard, 1942, 22 176

VINYL 2-THIOXAZOLIDONE

- L-5, antithyroid compound of rutabaga, 1950, 30 542
- inhibition of thyroxin formation, 1950, 30 203
- of various seeds, 1950, 30 543

VIOLURIC ACID

- diabetogenic action, 1948, 28 323

VIRILISM

- in adolescents and women, 1945, 25 233

VIRUS

- absorption and enzymic reaction on erythrocyte surface, 1951, 31 138
- absorption upon cell surface, 1951, 31 132
- activity, chemical and physical properties, 1939, 19 531
- architecture, 1939, 19 524
- carcinogenesis due to, 1937, 17 96
- composition, 1939, 19 536
- constitution, 1948, 28 349
- crystallinity and significance, 1939, 19 540
- definition, 1939, 19 524
- density, 1948, 28 359
- destruction of red cell receptors, 1951, 31 132
- diffusion constant, 1939, 19 535
- electrical charge and permeability of C.N.S. capillaries to, 1942, 22 135
- electrophoresis, 1948, 28 360
- equine encephalomyelitis, ultraviolet radiation, 1950, 30 445
- influenza, enzyme receptor mechanism, 1951, 31 145
- hemagglutination, 1951, 31 131
- virulence and infection, 1951, 31 145
- interaction with erythrocytes, 1951, 31 132
- internal structures, 1948, 28 356
- measurement of activity, 1939, 19 527
- morphology, 1948, 28 353
- mucoprotein, 1951, 31 131
- nature and mode of action, 1939, 19 548

- neoplasms due to, in cold blooded vertebrates, 1949, 29 104

- neurotropic, permeability of C.N.S. capillaries to, 1942, 22 131

- of avian leukosis, 1946, 26 70

- properties, 1948, 28 349

- purification, 1939, 19 533

- size and shape, 1939, 19 544, 1948, 28 360

- stability, 1948, 28 361

- tobacco mosaic, activity, 1939, 19 530

- ultracentrifugal characters, 1948, 28 357

- ultraviolet light, 1950, 30 446

VISCERAL PAIN *see* PAIN, deep

VISIBLE SPECTRUM

- interference methods of determining ultrastructure of protoplasm, 1939, 19 281

VISION

- acuity, 1937, 17 269

- chemical basis, 1937, 17 239

- complete colorblindness, 1937, 17 272

- detail, localization, 1939, 19 307

- instantaneous threshold, 1937, 17 268

- intensity discrimination, 1937, 17 255

- intermittent stimulation, 1937, 17 260

- photoreceptor process in, 1937, 17 273

- rods, cones, 1937, 17 239

- wavelength, relative energy, illumination, 1937, 17 242

VISUAL CORTEX

- association fibers, 1942, 22 225

- cortico-mesencephalic connections, 1942, 22 229

- cortico-pontine connections, 1942, 22 229

- efferent elements, 1942, 22 228

- intrinsic organization, 1942, 22 227

- lateral geniculate body and, 1942, 22 222

- vision and, 1942, 22 222

VISUAL PURPLE

- absorption spectrum, 1937, 17 242

- constituent of the rods, 1937, 17 243

- visibility curves and absorption spectrum, 1937, 17 242

VITAL CAPACITY

- pulmonary congestion, 1938, 18 97

VITAMIN A

- carbohydrate, protein metabolism in hyperthyroidism, 1943, 23 358

- depots in body, 1944, 24 220

- destruction by rancid fat, 1943, 23 268

- distribution in liver, diet, 1944, 24 211

- in tissue, 1944, 24 205

- under normal and pathological conditions, 1944, 24 210

- efficient absorption, 1948, 28 107

- fluorescence, carrier, 1944, 24 209

- concentration, 1944, 24 209

- estimation, 1944, 24 214

- hepatic, plasma concentration, 1944, 24 214

- metabolism, 1944, 24 208

- stability, 1944, 24 209

- specificity, 1944, 24 207

- tissue fat, 1944, 24 220

- visual appearance, 1944, 24 207

- from fats, 1945, 25 668
- histological determination, 1944, 24 206
- in dietary fat, 1943, 23 264
- in fatty materials, 1937, 17 340
- localization in cells, 1941, 21 252
- metabolic rate and, in hyperthyroidism, 1943, 23 360
- metabolism, thyroid function, 1943, 23 361
- plant growth, 1938, 18 539
- potency, antioxidants, 1943, 23 265
- storage, in liver, 1942, 22 59
- thyroid activity, 1943, 23 358
- thyroid gland, 1943, 23 356
- thyrotropic hormone, 1943, 23 361
- urea clearance, 1941, 21 532
- weight loss in hyperthyroidism, 1943, 23 356
- wound healing, 1936, 16 381
- VITAMIN A DEFICIENCY**
 - enamel hypoplasia, 1945, 25 445
 - functional, vitamin A shift in liver, 1944, 24 215
 - oral structures, 1945, 25 442
 - thyroid gland, 1943, 23 355
 - tissue changes, 1942, 22 234
 - vitamin A in liver, 1944, 24 212
- VITAMIN B-COMPLEX**
 - achromotrichia, 1948, 28 370
 - fatty livers treated with choline, 1944, 24 135
 - hard labor, 1944, 24 270
 - in hyperthyroidism, 1943, 23 364
 - liver function, 1943, 23 365
 - liver glycogen, 1943, 23 366
 - pulse rate, 1943, 23 366
 - sparing action of fat, 1943, 23 267
 - thyroid gland, 1943, 23 363
 - thyrotropic hormone, 1943, 23 367
 - tissue changes, 1942, 22 259
 - ulceration of stomach, 1944, 24 148
- VITAMIN D**
 - absorption, 1940, 20 538
 - capillary permeability, 1947, 27 456
 - from fats, 1945, 25 669
 - hyperthyroidism, 1943, 23 373
 - in dietary fat, 1943, 23 266
 - in fatty materials, 1937, 17 340
 - intestinal absorption, 1948, 28 108
 - metabolism of fetus and placenta, 1941, 21 455
 - storage in liver, 1942, 22 60
 - sunlight, 1945, 25 508
 - wound healing, 1936, 16 383
- VITAMIN D DEFICIENCY**
 - oral structures, 1945, 25 456
 - thyroid gland, 1943, 23 372
 - tissue changes, 1942, 22 246
- VITAMIN DEFICIENCIES**
 - insulin of pancreas, 1944, 24 421
- VITAMIN E**
 - destruction by rancid fat, 1943, 23 268
 - in dietary fat, 1943, 23 267
 - intestinal absorption, 1948, 28 108
 - metabolism of fetus and placenta, 1941, 21 455
 - thyrotropic hormone, 1943, 23 374
- VITAMIN E DEFICIENCY**
 - brain lesions, 1943, 23 46
 - central nervous system, 1943, 23 43
 - ganglion cells, 1943, 23 45
 - muscle constituents, 1943, 23 39
 - muscular disorders, 1943, 23 37
 - muscular function, 1943, 23 42
 - oral structures, 1945, 25 459
 - thyroid gland, 1943, 23 373
 - tissue changes, 1942, 22 253
- VITAMIN K**
 - antagonism, 1945, 25 710
 - antagonistic structural analogs, 1947, 27 314
 - biochemistry, 1941, 21 202
 - deficiency, tissue changes, 1942, 22 256
 - determination, 1941, 21 196
 - Dicumaryl, 1944, 24 308
 - intestinal absorption, 1948, 28 108
 - mechanism of action, 1941, 21 201
 - physiology, 1941, 21 197
 - presence in animal tissues, 1941, 21 196
 - in micro-organisms, 1941, 21 194
 - in plants, 1941, 21 194
 - review, 1941, 21 194
 - storage in liver, 1942, 22 61
 - substitutes, 1941, 21 207
- VITAMIN K₁** *see* 2-METHYL 3-PHYTYL-1,4-NAPHTHO-QUINONE
- VITAMIN M**
 - blood dyscrasias in monkeys, 1948, 28 54
- VITAMINS**
 - assay with microorganisms, 1948, 28 255
 - carcinogenesis, 1944, 24 195
 - deficiency, goiter, 1950, 30 520
 - destruction or inactivation, 1948, 28 113
 - excretion, factors influencing, 1948, 28 116
 - extraction from sample for microbiological assay, 1948, 28 269
 - liver, 1942, 22 58
 - localization in cells, 1941, 21 251
 - melanin formation, 1950, 30 110
 - of skin, 1946, 26 499
 - permeability of skin to, 1946, 26 531
 - requirements, heat, 1947, 27 218
 - synthesis by neurospora, 1945, 25 657
 - water soluble, intestinal absorption, 1948, 28 109
 - wound healing, 1936, 16 380
- VOCAL CORDS**
 - in action, 1938, 18 67
- VOEGTLIN, C** Biochemistry of malignant tissues, 1937, 17 92
- VOMITING**
 - intraventricular injection of acetylcholine, 1945, 25 600
- VON OETTINGEN, W F** Organic chemical industrial hazards to health, 1942, 22 170
- VORTICELLA**
 - strength-duration curve, 1936, 16 409
- VULVA**
 - local action of estrogens, 1948, 28 34
- W** *W* **WAINE, H.** *see* BAUER, W

WAKEFULNESS

EEG, 1950, 30 467

WAR

nutrition, 1944, 24 241

WARBURG'S COFERMENT *see* TRIPHOSPHOPYRIDINE NUCLEOTIDE

WARREN, S Histopathology of radiation lesions, 1944, 24 225

WARMTH

neural mechanisms, 1946, 26 78

sense of, definition, 1946, 26 79

WATER

absorption, anoxia, 1941, 21 315

adrenocortical hormones, 1949, 29 294

acidification, 1944, 24 519

adrenal cortex, 1949, 29 281

in adaptational syndrome, 1949, 29 299

medulla, 1949, 29 297

thyroid, 1949, 29 298

alimentary exchanges, 1944, 24 500

calcium, ascorbic acid, 1943, 23 91

deprivation, 1944, 24 517

entrance into erythrocytes, 1936, 16 24

excessive drinking, 1944, 24 516

exchange between inhaled fluid and blood in pulmonary capillaries, 1944, 24 71

insensible loss, 1942, 22 15

within body, 1944, 24 491

excretion, adrenocortical hormones, 1949, 29 283

in newborn, 1948, 28 337

gastric absorption, 1948, 28 434

in aorta, age, 1943, 23 187

in muscular activity, 1936, 16 479

insensible loss, 1942, 22 1

air currents, 1942, 22 7

clothing, 1942, 22 7

from skin, 1942, 22 4

heat elimination, 1942, 22 12

humidity, 1942, 22 4

loss of weight, 1942, 22 1

partition, 1942, 22 2

through respiratory tract, 1942, 22 3

loss, in arthropoda, 1938, 18 36

in wound healing, 1936, 16 363

movement in muscle, 1936, 16 453

of body, 1942, 22 9

of cells at various ages, 1943, 23 81

of fetus and infant, 1939, 19 422

of human and canine prostatic fluids, 1945, 25 285

of muscle, denervation, 1939, 19 16

of rat body, diet, 1947, 27 85

permeability of skin to, 1946, 26 520

sex, 1942, 22 7

skin circulation, 1942, 22 8

species variations, 1942, 22 14

temperature, 1942, 22 5

tubular reabsorption, 1941, 21 547

WATER BALANCE

adrenalectomy, 1949, 29 285

adrenocortical hormones, 1949, 29 285

alkalinization, 1944, 24 519

diet, water and salts, 1944, 24 516

during reproductive cycle, 1945, 25 221

electrolyte metabolism, 1949, 29 288

endocrine control, 1944, 24 509

exercise, posture, 1944, 24 521

extra renal aspects of adrenocortical regulation, 1949, 29 293

in body, 1944, 24 491

in obesity, 1944, 24 24

kidneys, 1944, 24 504

metabolic measurement, 1944, 24 502

pituitary gland, 1940, 20 499

sodium deficiency, 1944, 24 517

steroids, 1949, 29 296

sodium excess, 1944, 24 519

WATER BUFFALO

acetylcholine of nervous tissue, 1945, 25 627

WATER DIURESIS

adrenal cortex, 1944, 24 99

conditioned inhibition, 1945, 25 583

cortical hormones, 1949, 29 284

drugs, 1945, 25 584

inhibition by sensory stimuli, 1945, 25 583

tests of adrenocortical function, 1949, 29 300

WATER INTOXICATION

adrenal cortex, 1944, 24 99, 1949, 29 294

WATER METABOLISM *see* WATER BALANCEWATERS, R M *see* SEEVERS, M H

WATSON, C J AND LARSON, E A Urinary coproporphyrins in health and disease, 1947, 27 478

WEAVER AND BRAY PHENOMENON

of hearing, 1938, 18 60

WEIL MALHERBE, H Glutamic acid and nervous system, 1950, 30 549

WEINHOUSE, S *see* HIRSCH, E F

WELCH, A. D Chemical constitution and biological action, 1945, 25 687

WELSH, J H AND SCHALLEK, W Arthropod nervous systems, 1946, 26 447

WERTHEIMER, E AND SHAPIRO, B Physiology of adipose tissue, 1948, 28 451

WHALES

avoidance of caisson disease, 1939, 19 129

blue and fin, oxygen capacity of blood, 1939, 19 119

bottled nosed, diving ability, 1939, 19 114

duration of dives, 1939, 19 115

metabolic rate per day, 1947, 27 529

WHEAT

nicotinic acid of, 1940, 20 264

WHIPPLE, G H *see* MADDEN, S C

WHITE, A Anterior pituitary hormones, 1946, 26 574

WHITE MATTER

glutamic acid in, 1950, 30 550

respiration, 1939, 19 146

WHITTAKER, V P Cholinesterases, 1951, 31 312

WHITTERIDGE, D Multiple embolism of lung, 1950, 30 475

WIGGERS, C J Present status of the shock problem, 1942, 22 74

WILLIAMS, H. H *see* ANDERSON, W E

WINKLER TITRATION

for microrespiration, 1943, 23 52

- WENTON, F. R. Activities of mammalian kidney, 1937, 17 408
- WISLOCKI, G. B. *see* DEMPSEY, E. W.
- WOLBACH, S. B. AND BESSEY, O. A. Tissue changes in vitamin deficiencies, 1942, 22 233
- WOLFF, H. G. The cerebral circulation, 1936, 16 545
- AND HARDY, J. D. The nature of pain, 1947, 27 167
- WOMAN
- BMR in obesity, 1944, 24 20
- 17 ketosteroids of urine, 1950, 30 337
- menstrual cycle, 1937, 17 29, 1949, 29 16
- metabolic rate per day, 1947, 27 529
- virilism, 1945, 25 233
- WOOD, H. G. Fixation of carbon dioxide, 1946, 26 198
- WOOD-WERKMAN REACTION
- in microorganisms, 1946, 26 123
- in vivo, 1946, 26 123
- studies with cell extracts, 1946, 26 126
- WOOLLEY, D. W. Competition between related compounds, 1947, 27 308
- WORK
- environmental heat, 1947, 27 221
- hard, vitamin B-complex, 1944, 24 270
- maximal work, 1936, 16 276
- unassessed factors in capacity, 1936, 16 272
- WOUND HEALING
- autolysis by enzymes, 1936, 16 367
- Burrows theory, 1936, 16 393
- Carrel theory, 1936, 16 389
- conditions influencing, 1936, 16 328, 1936, 16 377
- connective tissue participation, 1936, 16 336
- epithelial participation, 1936, 16 342
- events, 1936, 16 329
- fibroplasia, 1936, 16 338
- mensuration, 1936, 16 358
- pain, 1936, 16 371
- physico-chemical relations, 1936, 16 362
- reparative stimuli, 1936, 16 333
- scar tissue, 1936, 16 341
- types, 1936, 16 327
- WOUNDS
- body as a whole, 1936, 16 372
- electrosurgical, 1936, 16 355
- healing, 1936, 16 327
- hydrogen ion concentration, 1936, 16 365
- tissues, fluid of, 1936, 16 363
- metabolism, 1936, 16 371
- WRIGHT, R. D. *see* FLOREY, H. W.
- WRIGHT, S. The physiology of the gene, 1941, 21 487
- XANTHINE
- blood pressure, 1936, 16 298
- coronary blood flow, 1946, 26 42
- XANTHINE OXIDASE
- thyroxin, 1951, 31 217
- XANTHOMA
- cells, origin, 1946, 26 298
- formation, diseases exhibiting, 1946, 26 302
- lipid metabolism, 1946, 26 302
- XANTHOMATOSES
- characteristics, 1946, 26 296
- cholesterol, 1946, 26 296
- XANTHOPTERIN
- antagonism to folic acid, 1947, 27 312
- antagonism to pteroylglutamic acid, 1947, 27 313
- biological effects, 1948, 28 56
- inhibition of folic acid production, 1945, 25 709
- XIPHOSURA
- locomotion, 1946, 26 359
- X-RAY
- as tumor inducing agent, 1943, 23 113
- carcinogenesis, 1944, 24 187
- growth of leukemic cells, 1946, 26 69
- production of leukemia by, 1946, 26 57
- wound healing, 1936, 16 379
- X-RAY DIFFRACTION
- determination of ultrastructure of protoplasm, 1939, 19 279
- X SUBSTANCE
- of Laqueur school, from testis, 1937, 17 202
- XULOSE
- Qo, of minced guinea pig brain, 1939, 19 150
- YAWNING
- associated phenomena, 1946, 26 156
- experimental studies, 1946, 26 160
- in animals, 1946, 26 158
- literature, 1946, 26 156
- neurology, 1946, 26 160
- pathological significance, 1946, 26 159
- theories as to significance, 1946, 26 160
- vasomotor activity in digits, 1946, 26 162
- YEAST
- activity of pteroylglutamic acid and related compounds, 1948, 28 62
- chemotaxis, 1946, 26 328
- extract, as substitutes for insulin, 1949, 29 79
- microbiological assay of vitamins with, 1948, 28 258
- nicotinic acid of, 1940, 20 264
- YEAST COENZYME *see* DIPHOSPHOPYRIDINE NUCLEOTIDE
- YOHIMBINE
- arthropod nervous system, 1946, 26 471
- YOUNG, J. Z. Functional repair of nervous tissue, 1942, 22 318
- YOUNG, L. Detoxication of carbocyclic compounds, 1939, 19 323
- YUDKIN, W. H. Thiaminase, Chastek paralysis factor, 1949, 29 389
- YULE, C. L. Hemoglobinuria, 1942, 22 19
- ZINC
- achromotrichia, 1948, 28 374
- insulin of pancreas, 1944, 24 417
- carbonic anhydrase, 1949, 29 370
- complex compounds, 1949, 29 379
- deficiency in animals, 1949, 29 374
- enzymes, 1949, 29 380
- excretion and absorption, 1949, 29 373
- in milk, 1949, 29 373
- in pathological conditions, 1949, 29 376

ZINC

- intoxication, 1949, 29 375
- localization in nucleus, 1941, 21 254
- of body fluids, 1949, 29 372
- of tissues, 1949, 29 370

ZIRCONIUM

- industrial hazard, 1945, 25 192

ZWEIFACH, B W *see* CHAMBERS, R

ZWISCHENFERMENT

- in cellular respiration, 1939, 19 218

